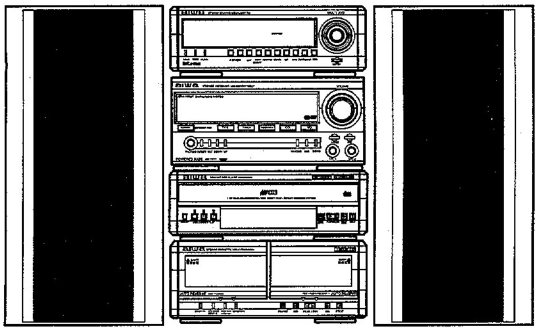
aiwa

aiwa SERVICE

XR-H1100
XR-AVH1200



COMPACT DISC STEREO
SYSTEM

- BASIC TAPE MECHANISM : 2ZM–3MK2 PR4NM
- BASIC CD MECHANISM : 4ZG–1 Z3NDSHM
- TYPE :EZ, K, HR

SYSTEM	AMPLIFIER	GRAPHIC EQUALIZER	CASSETTE DECK	CD PLAYER	SPEAKERS	REMOTE CONTROL
XR-H1100	MX-NH1100	GE-NH1100	FX-NH1100	DX-NH1100	SX-NAVH1200	RC-ZAS04
XR-AVH1200	MX-NAVH1200	GE-NAVH1200			SX-NAVH1200 SX-CR677	

SERVICE MANUAL

S/M Code No. 09–996–411–6R1

TABLE OF CONTENTS

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING 3
PRECAUTION TO REPLACE OPTICAL BLOCK 3
SPECIFICATIONS (XR-H1100) 4
SPECIFICATIONS (XR-AVH1200) 5

MODEL NO. MX–NH1100 / NAVH1200

ELECTRICAL MAIN PARTS LIST .... 6 ~ 11
CHIP RESISTOR PART CODE 11
TRANSISTOR ILLUSTRATION 12
WIRING – 1 (MAIN : MX-NH1100) 13, 14
SCHEMATIC DIAGRAM – 1 (MAIN : MX-NH1100) .... 15 ~ 17
SCHEMATIC DIAGRAM – 2 (MAIN : MX-NAVH1200) .... 18 ~ 20
WIRING – 2 (MAIN : MX-NAVH1200) 21, 22
WIRING – 3 (FRONT) 23, 24
SCHEMATIC DIAGRAM – 3 (FRONT) 25, 26
WIRING – 4 (PT) 27, 28
SCHEMATIC DIAGRAM – 4 (PT) 29, 30
SCHEMATIC DIAGRAM – 5 (TUNER : EZ, K) 31, 32
WIRING – 5 (TUNER : EZ, K) 33
WIRING – 6 (TUNER : HR) 34
SCHEMATIC DIAGRAM – 6 (TUNER : HR) 35, 36
SCHEMATIC DIAGRAM – 7 (PROLOGIC : MX-NAVH1200 ONLY) 37, 38
FL (10-BT-218GNK) GRID ASSIGNMENT / ANODE CONNECTION 39
IC BLOCK DIAGRAM .... 40 ~ 44
IC DESCRIPTION .... 45 ~ 47
ADJUSTMENT (TUNER) .... 48 ~ 49
PRACTICAL SERVICE FIGURE 50
MECHANICAL EXPLODED VIEW 1 / 1 .... 51 ~ 52
MECHANICAL PARTS LIST 1 / 1 53

MODEL NO. DX–NH1100

ELECTRICAL MAIN PARTS LIST 54
CHIP RESISTOR PART CODE 55
TRANSISTOR ILLUSTRATION 55
FL (6-BT-303GNK) GRID ASSIGNMENT / ANODE CONNECTION 56
WIRING (MAIN / FRONT / KEY) 57, 58
SCHEMATIC DIAGRAM (MAIN / FRONT / KEY) 59, 60
IC DESCRIPTION 61, 62
MECHANICAL EXPLODED VIEW 1 / 1 63
MECHANICAL PARTS LIST 1 / 1 64

MODEL NO. FX–NH1100

ELECTRICAL MAIN PARTS LIST 65, 66
CHIP RESISTOR PART CODE 67
TRANSISTOR ILLUSTRATION 68
WIRING – 1 (MAIN / FRONT) 69, 70
SCHEMATIC DIAGRAM (MAIN / FRONT / DECK) 71, 72
WIRING – 2 (DECK) 73
ADJUSTMENT (DECK) 74, 75
PRACTICAL SERVICE FIGURE 75
IC DESCRIPTION 76, 77
IC BLOCK DIAGRAM 78
MECHANICAL EXPLODED VIEW 1 / 1 .... 79, 80
MECHANICAL PARTS LIST 1 / 1 81
SPRING APPLICATION POSITION 82
TAPE MECHANISM EXPLODED VIEW 1 / 2 83
TAPE MECHANISM EXPLODED VIEW 2 / 2 84
TAPE MECHANISM PARTS LIST 1 / 1 85

MODEL NO. GE–NH1100 / NAVH1200

ELECTRICAL MAIN PARTS LIST 86
CHIP RESISTOR PART CODE 87
TRANSISTOR ILLUSTRATION 87
FL (BJ699GK) GRID ASSIGNMENT / ANODE CONNECTION 88
IC DESCRIPTION 89
IC BLOCK DIAGRAM 90
WIRING (MAIN) 91, 92
SCHEMATIC DIAGRAM (MAIN) 93, 94
MECHANICAL EXPLODED VIEW 1 / 1 .... 95, 96
MECHANICAL PARTS LIST 1 / 1 97

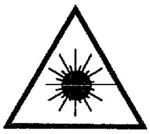
SPEAKER DISASSEMBLY INSTRUCTION 98
SPEAKER PART LIST 99
ACCESSORIES / PACKAGE LIST 99
REFERENCE NAME LIST 100

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- ■ Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- ■ Advarsel: Usynlig laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

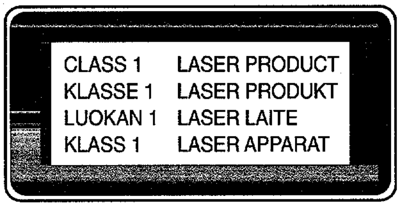
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.



CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

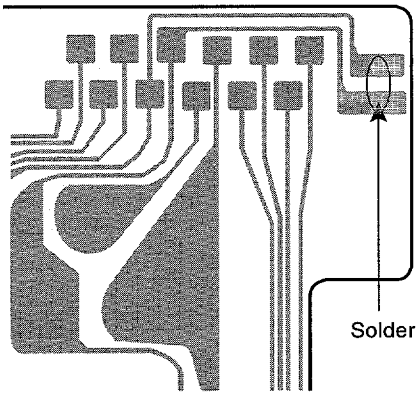
Precaution to replace Optical block

(KSS – 213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in right figure.

PICK-UP Assy P.C.B



SPECIFICATIONS <XR-H1100>

<STEREO RECEIVER MX-NH1100>

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	EZ,K: 16.8 dBf HR: 13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<MW Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

<LW Tuner section><EZ,K>

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 µV/m
Antenna	Loop antenna

<SW Tuner section><HR>

Tuning range	5.900 MHz to 17.900 MHz
Antenna	Wire antenna

<Amplifier section>

Power output	Rated: 65 W + 65 W EZ,K: (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) HR: (1 kHZ, T.H.D. 1 %, 6 ohms) Reference: 80 W + 80 W EZ,K: (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) HR: (1 kHZ, T.H.D. 10 %, 6 ohms) EZ,K: DIN MUSIC POWER: 145 W + 145 W
Total harmonic distortion	0.1 % (8 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 310 mV (adjustable) MD: 310 mV (adjustable) MIC 1, MIC 2: 1.2 mV (10 kohms)
Outputs	LINE OUT: 175 mV SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 8 ohms to 16 ohms PHONES (stereo jack): accepts headphones of 32 ohms or more

<General>

Power requirements	EZ: 230 V AC, 50 Hz K: 230–240 V AC, 50 Hz HR: 120 V/ 220V–230V/ 240 V AC switchable 50/60 Hz
Power consumption	135 W
Dimensions of main unit (W x H x D)	284 x 122 x 337 mm
Weight of main unit	5.9 kg

<CASSETTE DECK FX-NH1100>

Track format	4 tracks, 2 channels stereo
Frequency response	Type II (high/CrO₂) tape: 50 Hz – 16000 Hz Type I (normal) tape: 50 Hz – 15000 Hz
Signal-to-noise ratio	60 dB (Dolby B NR ON, Type II tape peak level)
Recording system	AC bias, AC erase
Heads	Deck 1: Playback head x 1 Deck 2: Recording/playback head x 1, erase head x 1
Dimensions of main unit (W x H x D)	284 x 122 x 315 mm
Weight of main unit	2.0 kg

<CD PLAYER DX-NH1100>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable
Dimensions of main unit (W x H x D)	284 x 101 x 315 mm
Weight of main unit	2.3 kg

<GRAPHIC EQUALIZER GE-NH1100>

Dimensions of main unit (W x H x D)	284x 101 x 328 mm
Weight	1.7 kg

<SPEAKER SYSTEM SX–NAVH1200>

Cabinet type	3 way (magnetic shielded type)
Speakers	Woofer: 140 mm cone type x 2 Tweeter: 60 mm cone type Super tweeter: 20 mm ceramic type
Impedance	6 ohms
Output sound pressure level	88 dB/W/m
Dimensions (W x H x D)	250 x 443 x 250 mm
Weight	EZ,K: 7.0 kg HR: 6.0 kg

- Design and specifications are subject to change without notice.

- Manufactured under license from Dolby Laboratories Licensing Corporation.
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- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
  Under license from BBE Sound, Inc.

SPECIFICATIONS <XR-AVH1200>

<STEREO RECEIVER MX-NAVH1200>

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	EZ,K: 16.8 dBf HR: 13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<MW Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

<LW Tuner section><EZ,K>

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 µV/m
Antenna	Loop antenna

<SW Tuner section><HR>

Tuning range	5.900 MHz to 17.900 MHz
Antenna	Wire antenna

<Amplifier section>

Power output	**Front** Rated: 65 W + 65 W EZ,K: (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) HR: (1 kHZ, T.H.D. 1 %, 6 ohms) Reference: 80 W + 80 W EZ,K: (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) HR: (1 kHZ, T.H.D. 10 %, 6 ohms) EZ,K: DIN MUSIC POWER: 150 W + 150 W **Rear (Surround)** Rated: 20 W + 20 W EZ,K: (8 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) HR: (1 kHZ, T.H.D. 1 %, 8 ohms) Reference: 25 W + 25 W EZ,K: (8 ohms, T.H.D. 10 %, 1 kHz/ DIN 45324) HR: (1 kHZ, T.H.D. 10 %, 8 ohms) EZ,K: DIN MUSIC POWER: 46 W + 46 W **Center** Rated: 20 W EZ,K: (8 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) HR: (1 kHZ, T.H.D. 1 %, 8 ohms) Reference: 25 W EZ,K: (8 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) HR: (1 kHZ, T.H.D. 10 %, 8 ohms) EZ,K: DIN MUSIC POWER: 46 W
Total harmonic distortion	EZ,K: 0.1 % (8 W, 1 kHz, 6 ohms, DIN AUDIO/Front) HR: 0.1 % (8 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 310 mV (adjustable) MD: 310 mV (adjustable) MIC 1, MIC 2: 1.2 mV (10 kohms) 5.1CH INPUT FRONT (L,R): 400 mV SURROUND (L,R): 400 mV CENTER: 400 mV SUB WOOFER: 400 mV
Outputs	LINE OUT: 175 mV SUB WOOFER<EZ,K>: 1V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 8 ohms to 16 ohms CENTER SPEAKER<EZ,K>: accept speakers of 8 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more

<General>

Power requirements	EZ,K: 230 V AC, 50 Hz HR: 120 V/ 220V–230V/ 240 V AC switchable 50/60 Hz
Power consumption	EZ,HR: 155 W K: 160 W
Dimensions of main unit (W x H x D)	284 x 122 x 387 mm
Weight of main unit	5.9 kg

<CASSETTE DECK FX-NH1100>

Track format	4 tracks, 2 channels stereo
Frequency response	Type II (high/CrO$_2$) tape: 50 Hz – 16000 Hz Type I (normal) tape: 50 Hz – 15000 Hz
Signal-to-noise ratio	60 dB (Dolby B NR ON, Type II tape peak level)
Recording system	AC bias, AC erase
Heads	Deck 1: Playback head x 1 Deck 2: Recording/playback head x 1, erase head x 1
Dimensions of main unit (W x H x D)	284 x 122 x 315 mm
Weight of main unit	2.0 kg

<CD PLAYER DX-NH1100>

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D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable
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Weight of main unit	2.3 kg

<GRAPHIC EQUALIZER GE-NAVH1200>

Dimensions of main unit (W x H x D)	284x 101 x 328 mm
Weight	1.7 kg

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Cabinet type	3 way (magnetic shielded type)
Speakers	Woofer: 140 mm cone type x 2 Tweeter: 60 mm cone type Super tweeter: 20 mm ceramic type
Impedance	6 ohms
Output sound pressure level	88 dB/W/m
Dimensions (W x H x D)	250 x 443 x 250 mm
Weight	EZ,K: 7.0 kg HR: 6.0 kg

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  Under license from BBE Sound, Inc.

MODEL NO.

MX-NH1100/NAVH1200

ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	8Z-SP1-605-010		IC,UPD780228GF-034-3BA
	87-A20-914-010		IC,SPS-442-1-F
	87-A21-202-040		C-IC,M62445AFP
	87-A20-804-040		C-IC,NJM2152M
	87-017-888-080		IC,NJM4558MD
	87-A20-869-040		C-IC,M62449FP
	87-070-127-110		IC,LC72131 D
	87-A20-913-010		IC,LA1837NL
	87-A21-051-040		C-IC,BU9990-03FS
	87-A21-097-040		C-IC,M62463AFP<1200>
	87-A21-015-040		C-IC,M62491FP<1200>
	87-A21-018-040		C-IC,M65849BFP631D
	87-A20-440-040		C-IC,BU1920FS
TRANSISTOR			
	87-026-245-080		TR,DTC114ES
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-083-080		TR,CSD1489B
	87-A30-075-080		C-TR,2SA1235F
	87-026-609-080		TR,KTA1266GR
	89-213-702-010		TR,2SB1370 (1.8W)
	87-A30-087-080		C-FET,2SK2158
	87-A30-257-080		C-TR,2SD1306E
	87-A30-268-040		C-TR,2SA1514K(S)
	87-A30-190-080		TR,CC5551
	87-A30-071-080		C-TR,RT1N 144C
	87-A30-106-070		C-TR,CMBT5551
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-074-080		C-TR,RT1P 141C
	87-026-263-080		C-TR,RN1410
	89-333-266-080		C-TR,2SC3326B
	89-112-965-080		TR,2SA1296 (0.75W)
	87-026-226-080		CHIP-TR,DTA143EK
	87-A30-196-080		TR,2SC4115SRS
	89-327-143-080		TR,2SC2714 (0.1W)
	87-A30-086-070		C-TR,CSD1306E
	89-503-602-080		C-FET,2SK360E
	87-A30-108-010		TR,2SB1626
	87-A30-109-010		TR,2SD2495
	87-A30-186-010		FET,2SK3053
	87-A30-137-010		TR,2SD2494
	87-A30-138-010		TR,2SB1625
DIODE			
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-547-090		DIODE,D5SBA20
	87-017-447-010		DIODE,GBU4DL
	87-020-465-080		DIODE,1SS133 (110MA)
	87-A40-468-080		C-DIODE,HSM2836CTR
	87-A40-469-080		C-DIODE,HSM2838CTR
	87-A40-435-080		ZENER,MTZJ30D
	87-A40-345-080		ZENER,MTZJ10C
	87-A40-004-080		ZENER,MTZJ16A
	87-070-345-080		DIODE,IN4148
	87-017-931-080		ZENER,MTZJ5.6B
	87-A40-370-090		DIODE,RK46-P20
	87-070-136-080		ZENER,MTZJ5.1B
	87-A40-488-080		DIODE,1SS244
	87-A40-438-080		ZENER,MTZJ4.7A
	87-A40-002-080		ZENER,MTZJ5.1C
	87-A40-234-080		ZENER,MTZJ5.6A
	87-A40-442-080		ZENER,MTZJ9.1A
	87-A40-270-080		C-DIODE MC2838
	87-A40-500-080		ZENER,MTZJ30B
MAIN C.B			
C101	87-010-917-090		CAP,E 3300-50 M SMG
C102	87-010-917-090		CAP,E 3300-50 M SMG
C103	87-016-658-090		CAP,E 4700-35 SMG
C104	87-016-658-090		CAP,E 4700-35 SMG
C105	87-012-368-080		C-CAP,S 0.1-50 F
C106	87-012-368-080		C-CAP,S 0.1-50 F
C107	87-012-368-080		C-CAP,S 0.1-50 F
C108	87-012-368-080		C-CAP,S 0.1-50 F
C109	87-010-196-080		CHIP CAPACITOR,0.1-25
C110	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-010-196-080		CHIP CAPACITOR,0.1-25
C112	87-010-196-080		CHIP CAPACITOR,0.1-25
C113	87-010-247-080		CAP, ELECT 100-50V
C114	87-010-385-080		CAP, ELECT 220-25V
C115	87-010-385-080		CAP, ELECT 220-25V
C116	87-010-247-080		CAP, ELECT 100-50V
C117	87-010-430-080		CAP, ELECT 100-63
C118	87-010-263-080		CAP, ELECT 100-10V
C119	87-010-260-080		CAP, ELECT 47-25V
C120	87-010-403-080		CAP, ELECT 3.3-50V
C121	87-010-174-080		CAP CHIP SL470P (K)
C122	87-010-403-080		CAP, ELECT 3.3-50V
C123	87-010-247-080		CAP, ELECT 100-50V
C124	87-010-112-080		CAP, ELECT 100-16V
C125	87-010-235-080		CAP,E 470-16 SME
C130	87-010-399-090		CAP,E 3300-35 SME<1200>
C131	87-010-399-090		CAP,E 3300-35 SME<1200>
C132	87-012-368-080		C-CAP,S 0.1-50 F<1200>
C133	87-012-368-080		C-CAP,S 0.1-50 F<1200>
C190	87-010-196-080		CHIP CAPACITOR,0.1-25
C201	87-010-322-080		C-CAP,S 100P-50 CH
C202	87-010-322-080		C-CAP,S 100P-50 CH
C209	87-010-405-080		CAP, ELECT 10-50V
C210	87-010-405-080		CAP, ELECT 10-50V
C211	87-010-183-080		C-CAP,S 2700P-50 B
C212	87-010-183-080		C-CAP,S 2700P-50 B
C213	87-010-187-080		CAP CHIP S5600P
C214	87-010-187-080		CAP CHIP S5600P
C215	87-010-405-080		CAP, ELECT 10-50V
C216	87-010-405-080		CAP, ELECT 10-50V
C217	87-010-408-080		CAP, ELECT 47-50V
C218	87-010-408-080		CAP, ELECT 47-50V
C219	87-A10-516-080		C-CAP,S 100P-200 J CH
C220	87-A10-516-080		C-CAP,S 100P-200 J CH
C221	87-016-462-080		C-CAP,S 1-16 F
C222	87-016-462-080		C-CAP,S 1-16 F
C223	87-010-405-080		CAP, ELECT 10-50V
C226	87-010-405-080		CAP, ELECT 10-50V
C227	87-010-407-080		CAP, ELECT 33-50V
C229	87-010-407-080		CAP, ELECT 33-50V
C230	87-010-408-080		CAP, ELECT 47-50V
C231	87-010-186-080		CAP,CHIP 4700P
C232	87-010-186-080		CAP,CHIP 4700P
C233	87-010-401-080		CAP, ELECT 1-50V
C234	87-010-401-080		CAP, ELECT 1-50V
C235	87-010-196-080		CHIP CAPACITOR,0.1-25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C290	87-010-188-080		CAP,CHIP 6800P
C301	87-010-402-080		CAP, ELECT 2.2-50V<1200>
C302	87-010-402-080		CAP, ELECT 2.2-50V<1200>
C303	87-010-178-080		CHIP CAP 1000P<1200>
C304	87-010-178-080		CHIP CAP 1000P<1200>
C305	87-010-404-080		CAP, ELECT 4.7-50V<1200>
C306	87-010-404-080		CAP, ELECT 4.7-50V<1200>
C307	87-010-322-080		C-CAP,S 100P-50 CH<1200>
C308	87-010-322-080		C-CAP,S 100P-50 CH<1200>
C309	87-010-405-080		CAP, ELECT 10-50V<1200>
C310	87-010-405-080		CAP, ELECT 10-50V<1200>
C313	87-010-260-080		CAP, ELECT 47-25V<1200>
C314	87-010-260-080		CAP, ELECT 47-25V<1200>
C315	87-A10-596-080		C-CAP,S 100P-100 J CH<1200>
C316	87-A10-596-080		C-CAP,S 100P-100 J CH<1200>
C317	87-010-544-080		CAP, ELECT 0.1-50V<1200>
C318	87-010-544-080		CAP, ELECT 0.1-50V<1200>
C319	87-010-182-080		C-CAP,S 2200P-50 B<1200>
C321	87-012-145-080		CAP, CHIP S 270P CH<1200>
C322	87-012-145-080		CAP, CHIP S 270P CH<1200>
C323	87-016-462-080		C-CAP,S 1-16 F<1200>
C324	87-016-462-080		C-CAP,S 1-16 F<1200>
C351	87-010-402-080		CAP, ELECT 2.2-50V<1200>
C352	87-010-178-080		CHIP CAP 1000P<1200>
C353	87-010-404-080		CAP, ELECT 4.7-50V<1200>
C354	87-010-322-080		C-CAP,S 100P-50 CH<1200>
C355	87-010-405-080		CAP, ELECT 10-50V<1200HR>
C355	87-010-404-080		CAP, ELECT 4.7-50V<1200EZ,K>
C357	87-010-260-080		CAP, ELECT 47-25V<1200>
C358	87-A10-596-080		C-CAP,S 100P-100 J CH<1200>
C359	87-010-544-080		CAP, ELECT 0.1-50V<1200>
C360	87-012-145-080		CAP, CHIP S 270P CH<1200>
C361	87-016-462-080		C-CAP,S 1-16 F<1200>
C381	87-010-402-080		CAP, ELECT 2.2-50V<1200>
C391	87-010-260-080		CAP, ELECT 47-25V<1200>
C503	87-010-180-080		C-CER 1500P
C504	87-010-180-080		C-CER 1500P
C511	87-010-405-080		CAP, ELECT 10-50V
C512	87-010-405-080		CAP, ELECT 10-50V
C513	87-010-404-080		CAP, ELECT 4.7-50V
C514	87-010-404-080		CAP, ELECT 4.7-50V
C519	87-012-142-080		CAP, S 0.33-16
C520	87-016-669-080		C-CAP,S 0.1-25 K B
C521	87-016-083-080		C-CAP,S 0.15-16 RK
C522	87-010-183-080		C-CAP,S 2700P-50 B
C523	87-016-669-080		C-CAP,S 0.1-25 K B
C525	87-010-404-080		CAP, ELECT 4.7-50V
C526	87-010-404-080		CAP, ELECT 4.7-50V
C531	87-010-405-080		CAP, ELECT 10-50V
C532	87-010-263-080		CAP, ELECT 100-10V
C533	87-010-263-080		CAP, ELECT 100-10V
C534	87-010-406-080		CAP, ELECT 22-50
C535	87-010-195-080		C-CAP,S 0.068-25 F
C536	87-012-142-080		CAP, S 0.33-16
C537	87-010-196-080		CHIP CAPACITOR,0.1-25
C538	87-010-404-080		CAP, ELECT 4.7-50V
C539	87-010-404-080		CAP, ELECT 4.7-50V
C540	87-010-320-080		CHIP CAP 68P
C541	87-010-320-080		CHIP CAP 68P
C542	87-010-320-080		CHIP CAP 68P
C545	87-010-196-080		CHIP CAPACITOR,0.1-25
C547	87-010-401-080		CAP, ELECT 1-50V
C548	87-010-401-080		CAP, ELECT 1-50V
C601	87-010-401-080		CAP, ELECT 1-50V
C602	87-010-401-080		CAP, ELECT 1-50V
C603	87-010-182-080		C-CAP,S 2200P-50 B
C604	87-010-182-080		C-CAP,S 2200P-50 B
C605	87-010-369-080		C-CAP,S 0.033-25 K B
C606	87-010-369-080		C-CAP,S 0.033-25 K B
C607	87-010-405-080		CAP, ELECT 10-50V
C608	87-010-405-080		CAP, ELECT 10-50V
C609	87-010-374-080		CAP, ELECT 47-10V
C610	87-010-374-080		CAP, ELECT 47-10V
C611	87-010-405-080		CAP, ELECT 10-50V
C612	87-010-112-080		CAP, ELECT 100-16V
C613	87-010-173-080		C-CAP,S 390P-50 SL
C614	87-010-173-080		C-CAP,S 390P-50 SL
C668	87-010-190-080		S CHIP F 0.01
C701	87-010-402-080		CAP, ELECT 2.2-50V
C702	87-010-402-080		CAP, ELECT 2.2-50V
C703	87-016-669-080		C-CAP,S 0.1-25 K B
C704	87-016-669-080		C-CAP,S 0.1-25 K B
C705	87-016-460-080		C-CAP,S 0.22-16 B
C706	87-016-460-080		C-CAP,S 0.22-16 B
C707	87-012-365-080		C-CAP,S 0.027-25VBK
C708	87-012-365-080		C-CAP,S 0.027-25VBK
C709	87-010-956-080		CHIP-CAP,S 0.068-25B
C710	87-010-956-080		CHIP-CAP,S 0.068-25B
C711	87-010-197-080		CAP, CHIP 0.01 DM
C712	87-010-197-080		CAP, CHIP 0.01 DM
C713	87-010-198-080		CAP, CHIP 0.022
C714	87-010-198-080		CAP, CHIP 0.022
C715	87-010-183-080		C-CAP,S 2700P-50 B
C716	87-010-183-080		C-CAP,S 2700P-50 B
C717	87-010-188-080		CAP,CHIP 6800P
C718	87-010-188-080		CAP,CHIP 6800P
C719	87-010-178-080		CHIP CAP 1000P
C720	87-010-178-080		CHIP CAP 1000P
C721	87-010-182-080		C-CAP,S 2200P-50 B
C722	87-010-182-080		C-CAP,S 2200P-50 B
C730	87-010-404-080		CAP, ELECT 4.7-50V
C731	87-010-112-080		CAP, ELECT 100-16V
C735	87-010-322-080		C-CAP,S 100P-50 CH
C736	87-010-322-080		C-CAP,S 100P-50 CH
C737	87-010-322-080		C-CAP,S 100P-50 CH
C738	87-010-196-080		CHIP CAPACITOR,0.1-25
C900	87-010-178-080		CHIP CAP 1000P<1200>
C901	87-010-182-080		C-CAP,S 2200P-50 B
C902	87-010-182-080		C-CAP,S 2200P-50 B
C903	87-010-196-080		CHIP CAPACITOR,0.1-25
C904	87-010-196-080		CHIP CAPACITOR,0.1-25
C905	87-010-196-080		CHIP CAPACITOR,0.1-25
C906	87-010-196-080		CHIP CAPACITOR,0.1-25
C907	87-010-190-080		S CHIP F 0.01
C908	87-010-190-080		S CHIP F 0.01
C909	87-012-368-080		C-CAP,S 0.1-50 F
C910	87-012-368-080		C-CAP,S 0.1-50 F
C911	87-010-190-080		S CHIP F 0.01
C912	87-010-190-080		S CHIP F 0.01<1200>
C913	87-010-182-080		C-CAP,S 2200P-50 B<1200>
C914	87-010-190-080		S CHIP F 0.01<1200(EZ,K)>
C915	87-010-190-080		S CHIP F 0.01<1200(EZ,K)>
C916	87-010-190-080		S CHIP F 0.01<1200(EZ,K)>
C917	87-010-190-080		S CHIP F 0.01<1200(EZ,K)>
C920	87-012-157-080		C-CAP,S 330P-50 CH
C921	87-012-157-080		C-CAP,S 330P-50 CH
C922	87-012-157-080		C-CAP,S 330P-50 CH
C923	87-012-157-080		C-CAP,S 330P-50 CH
C924	87-012-157-080		C-CAP,S 330P-50 CH<EZ,K>
C925	87-012-157-080		C-CAP,S 330P-50 CH<EZ,K>
C941	87-010-196-080		CHIP CAPACITOR,0.1-25<1200>
C942	87-010-196-080		CHIP CAPACITOR,0.1-25<1200>
C943	87-010-993-080		C-CAP,S 0.056-25 B<1200>
C944	87-010-993-080		C-CAP,S 0.056-25 B<1200>
C945	87-010-196-080		CHIP CAPACITOR,0.1-25<1200>
C946	87-010-993-080		C-CAP,S 0.056-25 B<1200>
C951	87-010-401-080		CAP, ELECT 1-50V
C952	87-010-263-080		CAP, ELECT 100-10V
C953	87-010-380-080		CAP, ELECT 47-16V
CN121	87-049-919-010		CONN,3P EH V WHT

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CN123	87-049-469-010		CONN,4P V
CN131	87-049-919-010		CONN,3P EH V WHT<1200>
CN601	87-099-196-010		CONN,8P 6216V<1100>
CN611	87-099-194-010		CONN,6P 6216V<1200>
CN621	87-A60-063-010		CONN,4P V 9604S-04C<EZ,K>
CN901	87-099-719-010		CONN,30P TYK-B(X)
CN902	87-009-877-010		CONN,9P FG
CN903	87-009-063-010		CONNECTOR 11P
CN906	87-A60-058-010		CONN,10P V 9604S-10C
CN907	87-A60-057-010		CONN,11P V 9604S-11C
CN951	87-A60-109-010		CONN,2P V S2M-2W
FB179	87-008-372-080		FILTER,EMI BL OIRNI<1200(EZ,K)>
FB501	87-003-223-010		FERRITE BEAD BLO2RN2
FB503	87-008-372-080		FILTER,EMI BL OIRNI<1200(EZ,K)>
FB504	87-008-372-080		FILTER,EMI BL OIRNI<1200(EZ,K)>
FB901	87-008-372-080		FILTER,EMI BL OIRNI
FB902	87-008-372-080		FILTER,EMI BL OIRNI<1200(EZ,K)>
FB903	87-008-372-080		FILTER,EMI BL OIRNI<1200(EZ,K)>
J901	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM<1200>
J902	87-A60-617-010		TERMINAL,SP 4P (MSC)
J903	87-A60-653-010		JACK,PIN 4P BLK/BLK<1100>
J903	87-A60-652-010		JACK,PIN 4P ORN/BLK<1200>
J904	87-A60-684-010		JACK,PIN 6P OR/BLK/RED<1200>
J905	87-A60-658-010		JACK,PIN 6P WHITE/RED
L601	87-005-372-080		COIL,1MH-K LALO3<EZ,K>
L602	87-005-372-080		COIL,1MH-K LALO3<EZ,K>
L901	87-003-383-010		COIL,1UH-S
L902	87-003-383-010		COIL,1UH-S
L911	87-003-383-010		COIL,1UH-S<1200>
L912	87-003-383-010		COIL,1UH-S<1200>
L913	87-003-383-010		COIL,1UH-S<1200>
PIN611	87-099-570-010		CONN,13P TUC-P13P-B1<1200>
PIN612	87-099-568-010		CONN,11P TUC-P11P-B1<1200>
PR201	87-002-330-080		ICP-N5
R237	87-A00-262-080		RES,M/F 0.15-2W J
R238	87-A00-262-080		RES,M/F 0.15-2W J
R239	87-A00-262-080		RES,M/F 0.15-2W J
R240	87-A00-262-080		RES,M/F 0.15-2W J
R331	87-022-050-080		RES,M/F 0.22-1W J<1200>
R332	87-022-050-080		RES,M/F 0.22-1W J<1200>
R333	87-022-050-080		RES,M/F 0.22-1W J<1200>
R334	87-022-050-080		RES,M/F 0.22-1W J<1200>
R366	87-022-050-080		RES,M/F 0.22-1W J<1200>
R367	87-022-050-080		RES,M/F 0.22-1W J<1200>
R807	87-022-214-080		C-RES S100K-1/10WF<1200>
R909	87-A00-440-050		RES,220-1/2W J RP
R910	87-A00-440-050		RES,220-1/2W J RP
R911	87-A00-440-050		RES,220-1/2W J RP
R912	87-A00-440-050		RES,220-1/2W J RP
R913	87-A00-527-080		RES,10-1/4W J NAT
R914	87-A00-527-080		RES,10-1/4W J NAT
R915	87-A00-527-080		RES,10-1/4W J NAT
R916	87-A00-527-080		RES,10-1/4W J NAT
R941	87-A00-527-080		RES,10-1/4W J NAT<1200>
R942	87-A00-527-080		RES,10-1/4W J NAT<1200>
R945	87-A00-527-080		RES,10-1/4W J NAT<1200>
TH201	87-A91-081-080		C-THMS,100K-K 20P
TH202	87-A91-081-080		C-THMS,100K-K 20P
W101	8Z-SP1-627-010		F-CABLE,7P 2.5 280MM
W601	88-908-281-110		FF-CABLE,8P-1.25 280MM<1100>
W611	88-906-301-110		FF-CABLE,6P-1.25<1200>
W621	88-904-151-110		FF-CABLE,4P-1.25 150MM<1100>
W906	88-910-071-110		FF-CABLE,10P-1.25 70MM
W907	88-911-121-110		FF-CABLE,11P-1.25
WH102	87-A90-460-010		HLDR,WIRE 2.5-7P

FRONT C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C101	87-010-196-080		CHIP CAPACITOR,0.1-25
C201	87-010-192-080		C-CAP,S 0.022-50 F
C202	87-010-264-040		CAP,E 100-10 5L
C203	87-016-081-080		C-CAP,S 0.1-16 RK
C204	87-010-981-040		CAP,E 22-35 5L SRE
C205	87-010-194-080		CAP, CHIP 0.047
C206	87-010-405-040		CAP,E 10-50
C207	87-010-194-080		CAP, CHIP 0.047
C208	87-A10-189-040		CAP,E 220-10
C209	87-010-071-040		CAP,E 1-50 M 5L SRE
C211	87-012-140-080		CAP 470P
C220	87-016-669-080		C-CAP,S 0.1-25 K B
C221	87-016-669-080		C-CAP,S 0.1-25 K B
C222	87-010-401-040		CAP,E 1-50 SME
C241	87-010-178-080		CHIP CAP 1000P
C242	87-010-318-080		C-CAP,S 47P-50 CH
C243	87-010-314-080		C-CAP,S 22P-50V
C244	87-010-316-080		C-CAP,S 33P-50 CH
C247	87-016-669-080		C-CAP,S 0.1-25 K B
C248	87-010-192-080		C-CAP,S 0.022-50 F
C251	87-010-197-080		CAP, CHIP 0.01 DM
C252	87-010-197-080		CAP, CHIP 0.01 DM
C253	87-A10-189-040		CAP,E 220-10
C254	87-010-197-080		CAP, CHIP 0.01 DM
C255	87-018-134-080		CAPACITOR,TC-U 0.01-16
C301	87-010-404-040		CAP,E 4.7-50 SME
C302	87-010-404-040		CAP,E 4.7-50 SME
C340	87-010-175-080		CAP 560P
C341	87-010-175-080		CAP 560P
C342	87-010-175-080		CAP 560P
C343	87-010-175-080		CAP 560P
C344	87-010-175-080		CAP 560P
C345	87-010-175-080		CAP 560P
C346	87-010-175-080		CAP 560P
C347	87-010-175-080		CAP 560P
C348	87-010-175-080		CAP 560P
C349	87-010-175-080		CAP 560P
C601	87-010-405-040		CAP,E 10-50
C602	87-010-176-080		C-CAP,S 680P-50 SL
C603	87-010-186-080		CAP,CHIP 4700P
C604	87-010-166-080		C-CAP,S 100P-50 SL
C605	87-010-321-080		CHIP CAPACITOR,82P(J)
C606	87-010-490-040		CAP, ELECT 0.1-50
C608	87-010-166-080		C-CAP,S 100P-50 SL
C609	87-010-545-040		CAP,E 0.22-50 SME
C610	87-010-177-080		C-CAP,S 820P-50 SL
C611	87-010-981-040		CAP,E 22-35 5L SRE
C614	87-010-248-040		CAP,E 220-10 SME
C615	87-010-075-040		CAP,E 10-16 5L<1100>
C615	87-010-498-040		CAP,E 10-16 GAS<1200>
C619	87-016-526-080		C-CAP,S 0.47-16 BK
C801	87-010-170-080		S CHIP SL 220P(K)
C802	87-010-176-080		C-CAP,S 680P-50 SL
C803	87-010-187-080		CAP CHIP S5600P
C804	87-010-213-080		C-CAP,S 0.015-50 B
C806	87-010-494-040		CAP,E 1-50 GAS
C807	87-010-196-080		CHIP CAPACITOR,0.1-25
C809	87-012-155-080		C-CAP 180P-50CH
C810	87-010-264-040		CAP,E 100-10 5L
C811	87-010-552-040		CAP,E 22-16 GAS
C812	87-010-560-040		CAP,E 10-50 GAS
C821	87-010-318-080		C-CAP,S 47P-50 CH
C822	87-010-318-080		C-CAP,S 47P-50 CH
C823	87-010-318-080		C-CAP,S 47P-50 CH
C901	87-012-141-080		CHIP-CAPACITOR,0.22-16F<1100>
C902	87-012-141-080		CHIP-CAPACITOR,0.22-16F<1100>
C903	87-016-526-080		C-CAP,S 0.47-16 BK<1100>
C904	87-010-183-080		C-CAP,S 2700P-50 B<1100>
C905	87-010-176-080		C-CAP,S 680P-50 SL<1100>
C906	87-016-552-080		C-CAP,S 0.082-16 B K<1100>
C907	87-016-552-080		C-CAP,S 0.082-16 B K<1100>
C908	87-010-183-080		C-CAP,S 2700P-50 B<1100>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C909	87-010-176-080		C-CAP,S 680P-50 SL<1100>
C910	87-012-142-080		CAP, S 0.33-16<1100>
C911	87-010-196-080		CHIP CAPACITOR,0.1-25<1100>
C912	87-016-526-080		C-CAP,S 0.47-16 BK<1100>
C913	87-010-401-040		CAP,E 1-50 SME<1100>
C914	87-010-494-040		CAP,E 1-50 GAS<1100>
C915	87-010-184-080		CHIP CAPACITOR 3300P(K)<1100>
C916	87-010-184-080		CHIP CAPACITOR 3300P(K)<1100>
C917	87-010-553-040		CAP,E 47-16 GAS<1100>
C918	87-010-196-080		CHIP CAPACITOR,0.1-25<1100>
C919	87-010-264-040		CAP,E 100-10 5L<1100>
C920	87-010-318-080		C-CAP,S 47P-50 CH<1100>
C921	87-010-318-080		C-CAP,S 47P-50 CH<1100>
C922	87-010-318-080		C-CAP,S 47P-50 CH<1100>
CN101	87-099-720-010		CONN,30P TYK-B(P)
CN601	87-099-199-010		CONN,6P 6216 H<1200>
CN901	87-099-201-010		CONN,8P 6216 H<1100>
FB101	87-008-372-080		FILTER, EMI BL OIRNI
FB601	87-008-372-080		FILTER, EMI BL OIRNI
FL301	8Z-SP1-617-010		FL,10-BT-218GNK
J601	87-A60-651-010		JACK,3.5MONO
J602	87-A60-651-010		JACK,3.5MONO
L101	87-005-130-080		COIL,10UH K<1100>
L801	87-A50-093-010		COIL,CLOCK 5.76MHZ
LED201	87-A40-589-040		LED,SLR-56VCT31 RED
LED301	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED302	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED303	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED304	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED305	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED306	87-A40-589-040		LED,SLR-56VCT31 RED<1100>
LED306	87-A40-606-040		LED,SLR-332VC<1200>
LED307	87-A40-589-040		LED,SLR-56VCT31 RED<1100>
LED307	87-A40-606-040		LED,SLR-332VC<1200>
LED308	87-A40-589-040		LED,SLR-56VCT31 RED<1100>
LED308	87-A40-606-040		LED,SLR-332VC<1200>
LED309	87-A40-589-040		LED,SLR-56VCT31 RED<1100>
LED309	87-A40-606-040		LED,SLR-332VC<1200>
LED310	87-A40-589-040		LED,SLR-56VCT31 RED<1100>
LED310	87-A40-606-040		LED,SLR-332VC<1200>
S301	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
S305	87-A90-095-080		SW,TACT EVQ11G04M
S306	87-A90-095-080		SW,TACT EVQ11G04M
S307	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M
S309	87-A90-095-080		SW,TACT EVQ11G04M
S310	87-A90-095-080		SW,TACT EVQ11G04M
S311	87-A90-095-080		SW,TACT EVQ11G04M
S312	87-A90-095-080		SW,TACT EVQ11G04M
S313	87-A90-095-080		SW,TACT EVQ11G04M
S314	87-A90-095-080		SW,TACT EVQ11G04M
S315	87-A90-095-080		SW,TACT EVQ11G04M
S316	87-A90-095-080		SW,TACT EVQ11G04M<EZ,K>
S317	87-A90-095-080		SW,TACT EVQ11G04M<EZ,K>
S318	87-A90-095-080		SW,TACT EVQ11G04M<EZ,K>
SW201	87-A91-342-010		SW,RTRY EC16B24104W/O D L20
X201	87-A70-075-080		VIB,CER 4.19MHZ CRHF

PRO C.B <1200>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C801	87-010-176-080		C-CAP,S 680P-50 SL
C802	87-010-176-080		C-CAP,S 680P-50 SL
C803	87-010-958-080		CHIP -CAP,S 0.01-25BJ
C804	87-010-958-080		CHIP -CAP,S 0.01-25BJ
C805	87-010-958-080		CHIP -CAP,S 0.01-25BJ
C806	87-010-958-080		CHIP -CAP,S 0.01-25BJ
C807	87-010-401-080		CAP, ELECT 1-50V
C808	87-010-401-080		CAP, ELECT 1-50V
C809	87-010-196-080		CHIP CAPACITOR,0.1-25
C810	87-010-112-080		CAP, ELECT 100-16V
C811	87-010-402-080		CAP, ELECT 2.2-50V
C812	87-010-402-080		CAP, ELECT 2.2-50V
C813	87-010-401-080		CAP, ELECT 1-50V
C814	87-010-401-080		CAP, ELECT 1-50V
C815	87-010-546-080		CAP, ELECT 0.33-50V
C816	87-010-546-080		CAP, ELECT 0.33-50V
C817	87-010-221-080		CAP, ELECT 470-10V
C818	87-A10-891-080		CAP,E 4.7-25 SME(K)
C819	87-A10-800-080		C-CAP,S 6800P-16 J B CM
C820	87-010-374-080		CAP, ELECT 47-10V
C821	87-010-196-080		CHIP CAPACITOR,0.1-25
C822	87-A10-804-080		C-CAP,S 0.1-25 J B
C823	87-A10-800-080		C-CAP,S 6800P-16 J B CM
C824	87-010-374-080		CAP, ELECT 47-10V
C825	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-544-080		CAP, ELECT 0.1-50V
C830	87-010-546-080		CAP, ELECT 0.33-50V
C831	87-010-971-080		C-CAP,S 4700P-50 B J
C832	87-012-349-080		C-CAP,S 1000P-50 CH
C837	87-010-971-080		C-CAP,S 4700P-50 B J
C838	87-012-349-080		C-CAP,S 1000P-50 CH
C839	87-010-401-080		CAP, ELECT 1-50V
C840	87-010-401-080		CAP, ELECT 1-50V
C841	87-A10-799-080		C-CAP,S 5600P-16 J B CM
C842	87-A10-802-080		C-CAP,S 0.047-16 J B CM
C843	87-A10-229-080		C-CAP,S 0.68-10 K W5
C844	87-012-393-080		C-CAP,S 0.22-16 R K
C845	87-012-393-080		C-CAP,S 0.22-16 R K
C846	87-010-404-080		CAP, ELECT 4.7-50V
C847	87-010-404-080		CAP, ELECT 4.7-50V
C848	87-012-393-080		C-CAP,S 0.22-16 R K
C849	87-012-393-080		C-CAP,S 0.22-16 R K
C850	87-016-081-080		C-CAP,S 0.1-16 RK
C851	87-A10-802-080		C-CAP,S 0.047-16 J B CM
C852	87-A10-802-080		C-CAP,S 0.047-16 J B CM
C853	87-016-081-080		C-CAP,S 0.1-16 RK
C854	87-016-081-080		C-CAP,S 0.1-16 RK
C855	87-A10-801-080		C-CAP,S 0.022-16 J B CM
C856	87-A10-801-080		C-CAP,S 0.022-16 J B CM
C857	87-016-081-080		C-CAP,S 0.1-16 RK
C861	87-010-196-080		CHIP CAPACITOR,0.1-25
C863	87-010-263-080		CAP, ELECT 100-10V
C865	87-016-460-080		C-CAP,S 0.22-16 B
C866	87-010-194-080		CAP, CHIP 0.047
C867	87-A10-201-080		C-CAP,S0.33-16 KB
C868	87-A10-060-080		C-CAP,S 0.18-16 K B
C878	87-010-401-080		CAP, ELECT 1-50V
C879	87-010-179-080		CAP,CHIP S B1200P
C880	87-010-179-080		CAP,CHIP S B1200P
C890	87-012-358-080		C-CAP,S 0.47-10 F Z
C891	87-010-401-080		CAP, ELECT 1-50V
C892	87-010-401-080		CAP, ELECT 1-50V
C893	87-010-401-080		CAP, ELECT 1-50V
C894	87-010-263-080		CAP, ELECT 100-10V
C895	87-010-195-080		C-CAP,S 0.068-25 F
C896	87-010-260-080		CAP, ELECT 47-25V
CN401	87-099-559-010		CONN,13P TUC-P13X-B1<1200>
CN402	87-099-557-010		CONN,11P TUC-P11X-B1<1200>

TUNER C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C701	87-010-260-080		CAP, ELECT 47-25V
C702	87-010-404-080		CAP, ELECT 4.7-50V
C703	87-012-286-080		CAP, U 0.01-25
C704	87-012-286-080		CAP, U 0.01-25
C709	87-012-195-080		C-CAP,U 100P-50CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C711	87-010-263-080		CAP, ELECT 100-10V
C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C713	87-012-286-080		CAP, U 0.01-25
C714	87-012-286-080		CAP, U 0.01-25
C715	87-012-195-080		C-CAP,U 100P-50CH<EZ,K>
C717	87-012-286-080		CAP, U 0.01-25
C719	87-012-286-080		CAP, U 0.01-25
C720	87-012-195-080		C-CAP,U 100P-50CH
C721	87-012-176-080		CAP 15P
C722	87-012-176-080		CAP 15P
C723	87-012-274-080		CHIP CAP,U 1000P-50B
C725	87-012-274-080		CHIP CAP,U 1000P-50B
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-010-248-080		CAP, ELECT 220-10V
C753	87-010-263-080		CAP, ELECT 100-10V<EZ,K>
C755	87-012-286-080		CAP, U 0.01-25
C756	87-012-286-080		CAP, U 0.01-25
C757	87-012-188-080		C-CAP,U 47P-50 CH
C758	87-012-167-080		C-CAP,U 5P-50 CH
C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C762	87-012-286-080		CAP, U 0.01-25
C763	87-010-829-080		CAP, U 0.047-16
C764	87-012-337-080		C-CAP,U 56P-50 CH<HR>
C765	87-012-286-080		CAP, U 0.01-25
C766	87-012-286-080		CAP, U 0.01-25
C768	87-012-286-080		CAP, U 0.01-25
C769	87-010-260-080		CAP, ELECT 47-25V
C770	87-010-829-080		CAP, U 0.047-16
C771	87-010-407-080		CAP, ELECT 33-50V
C772	87-010-829-080		CAP, U 0.047-16
C773	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C774	87-010-263-080		CAP, ELECT 100-10V
C775	87-010-404-080		CAP, ELECT 4.7-50V
C776	87-012-286-080		CAP, U 0.01-25<EZ,K>
C777	87-010-400-080		CAP, ELECT 0.47-50V
C778	87-010-401-080		CAP, ELECT 1-50V
C779	87-010-401-080		CAP, ELECT 1-50V
C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C781	87-010-405-080		CAP, ELECT 10-50V
C782	87-010-405-080		CAP, ELECT 10-50V
C783	87-012-286-080		CAP, U 0.01-25
C784	87-012-286-080		CAP, U 0.01-25
C785	87-010-805-080		CAP, S 1-16
C786	87-010-805-080		CAP, S 1-16
C787	87-012-282-080		C-CAP,U 4700P-50 KB<EZ,K>
C787	87-012-280-080		CAP, U 3300P-50<HR>
C788	87-012-282-080		C-CAP,U 4700P-50 KB<EZ,K>
C788	87-012-280-080		CAP, U 3300P-50<HR>
C789	87-012-275-080		C-CAP,U 1200P-50 B
C790	87-012-275-080		C-CAP,U 1200P-50 B
C791	87-010-405-080		CAP, ELECT 10-50V
C793	87-012-275-080		C-CAP,U 1200P-50 B<EZ,K>
C793	87-012-273-080		C-CAP,U 820P-50 B<HR>
C794	87-010-406-080		CAP, ELECT 22-50
C795	87-A10-504-080		C-CAP,U 0.047-16 K B
C796	87-010-403-080		CAP, ELECT 3.3-50V
C797	87-012-276-080		CAP, CHIP SS 1500 PBK
C798	87-012-276-080		CAP, CHIP SS 1500 PBK
C799	87-010-829-080		CAP, U 0.047-16
C812	87-012-286-080		CAP, U 0.01-25
C813	87-010-197-080		CAP, CHIP 0.01 DM<HR>
C814	87-012-286-080		CAP, U 0.01-25
C818	87-010-196-080		CHIP CAPACITOR,0.1-25<EZ,K>
C819	87-010-197-080		CAP, CHIP 0.01 DM<HR>
C820	87-010-260-080		CAP, ELECT 47-25V
C821	87-012-286-080		CAP, U 0.01-25
C822	87-012-286-080		CAP, U 0.01-25
C823	87-012-286-080		CAP, U 0.01-25
C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-196-080		CHIP CAPACITOR,0.1-25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C859	87-012-286-080		CAP, U 0.01-25<EZ,K>
C861	87-012-266-080		C-CAP,U 220P-50 B<1100(EZ,K)>
C861	87-012-199-080		C-CAP,U 2200P-50 CH<1200(EZ,K)>
C862	87-012-266-080		C-CAP,U 220P-50 B<1100(EZ,K)>
C862	87-012-199-080		C-CAP,U 2200P-50 CH<1200(EZ,K)>
C863	87-012-270-080		C-CAP,U 470P-50 KB<EZ,K>
C864	87-010-405-080		CAP, ELECT 10-50V<EZ,K>
C865	87-010-196-080		CHIP CAPACITOR,0.1-25<EZ,K>
C866	87-010-405-080		CAP, ELECT 10-50V<1100(EZ,K)>
C866	87-012-273-080		C-CAP,U 820P-50 B<1200(EZ,K)>
C867	87-012-286-080		CAP, U 0.01-25<EZ,K>
C868	87-012-184-080		C-CAP,U 33P-50 J CH<EZ,K>
C869	87-012-180-080		C-CAP,U 22P-50 J CH<EZ,K>
C940	87-012-286-080		CAP, U 0.01-25
C941	87-012-182-080		C-CAP,U 27P-50 CH<HR>
C942	87-012-172-080		C-CAP,U 0.01-25 K B<EZ,K>
C943	87-012-286-080		CAP, U 0.01-25<HR>
C944	87-010-575-080		C-CAP,S 560P-50 UJ<HR>
C945	87-012-286-080		CAP, U 0.01-25<HR>
C947	87-012-286-080		CAP, U 0.01-25
C949	87-A10-039-080		C-CAP,U 470P-50 J CH<EZ,K>
C950	87-A10-913-080		C-CAP, 4700P-50 J CH<HR>
C952	87-012-286-080		CAP, U 0.01-25
C953	87-012-286-080		CAP, U 0.01-25<HR>
C954	87-010-400-080		CAP, ELECT 0.47-50V<HR>
C956	87-010-263-080		CAP, ELECT 100-10V<HR>
C958	87-012-286-080		CAP, U 0.01-25<EZ,K>
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C962	87-010-401-080		CAP, ELECT 1-50V
C964	87-012-170-080		C-CAP,U 8P-50 CH<HR>
CF801	87-008-423-010		CERAMIC FILTER, SFE10.7<EZ,K>
CF801	87-008-261-010		FILTER, SFE10.7MA5-A<HR>
CF802	82-785-747-010		CF MS2 GHY R<EZ,K>
CF802	87-008-261-010		FILTER, SFE10.7MA5-A<HR>
CN601	87-099-028-010		CONN,11P 6216 H
CN602	87-099-211-010		CONN,4P V BLK 6216<EZ,K>
FFE801	A8-6ZA-191-130		6ZA-1 FEENM<EZ,K>
FFE801	A8-8ZA-190-030		8ZA-1 FEUNM<HR>
J801	87-A60-657-010		TERMINAL,4P HSP-154V5-02<HR>
J802	87-033-241-010		TERMINAL,ANT 2P<EZ,K>
J940	81-754-629-010		CONNECTOR, 2P<HR>
L612	87-005-372-080		COIL S 1MHM<1200(EZ,K)>
L613	87-005-372-080		COIL S 1MHM<1200(EZ,K)>
L771	87-A50-266-010		COIL,FM DET-2N(TOK)
L772	87-A90-052-010		FLTR,CFMT-450A(TOK)<HR>
L772	87-A90-733-010		FLTR,PCFAZH-450<EZ,K>
L781	87-005-847-080		COIL,2.2UH(CECS)
L791	87-A50-027-010		COIL,1 POLE MPX(TOK)
L792	87-A50-027-010		COIL,1 POLE MPX(TOK)
L832	87-005-847-080		COIL,2.2UH(CECS)
L941	87-A50-020-010		COIL,ANT LW(COI)252KHZ<EZ,K>
L941	87-A50-022-010		COIL,ANT SW(COI)<HR>
L942	87-A50-019-010		COIL,OSC LW (COI)<EZ,K>
L942	87-A50-173-010		COIL,OSC SW-N(COI)<HR>
L943	87-005-372-080		COIL S 1MHM<HR>
L944	87-A50-159-010		COIL,10MH K C2B<HR>
L981	87-NF4-651-110		COIL,AM PACK2N(TOM)<EZ,K>
L981	88-NF8-625-110		COIL,AM PACK3N(TOK)<HR>
TC941	87-011-173-010		CERAMIC TRIMMER 20P<HR>
TC942	87-011-164-010		CAPACITOR,TRIMMER 30P<EZ,K>
TC943	87-011-164-010		CAPACITOR,TRIMMER 30P<HR>
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
X771	87-030-354-010		VIB,CF BFU 450C<HR>
X851	87-A70-091-010		VIB,XTAL 4.332MHZ<EZ,K>

VM C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CN122	84-NF1-650-010		CONN ASSY,3P (S-M)<1100>
CN124	84-NF1-650-010		CONN ASSY,3P (S-M)<1200>

CONN 10P C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CN904	87-A60-575-010		CONN,10P H 52303
CN905	87-099-198-010		CONN,10P 6216 V

AC1 C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠ PT101	88-SPM-604-010		PT,EZ<1200EZ>
⚠ PT101	88-SPM-602-010		PT,HE<1200HR>
⚠ PT101	88-SPM-606-010		PT,K<1200K>
⚠ PT101	88-SP1-604-010		PT,EZ<1100EZ>
⚠ PT101	88-SP1-602-010		PT,HE<1100HR>
⚠ PT101	88-SP1-606-010		PT,K<1100K>

SUB TRANS C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C138	87-010-387-080		CAP,E 470-25 SME
⚠ C140	87-A10-480-090		CAP,CER 4700P-250 M E KH<1200>
⚠ C141	87-A10-480-090		CAP,CER 4700P-250 M E KH
CN102	8Z-SP1-619-010		CONN ASSY,4P
⚠ PT102	8Z-NF8-662-010		PT,SUB ZNF-8(E)<EZ,K>
⚠ PT102	8Z-NF8-663-010		PT,SUB ZNF-8(H)<HR>
⚠ RY101	87-A91-281-010		RELAY,AC DC12V OSA-SS-212<HR>
⚠ RY102	87-A90-976-010		RELAY,AC12V SDT-S-112<EZ,K>
⚠ T101	87-A60-317-010		TERMINAL, 1P MSC
⚠ T102	87-A60-317-010		TERMINAL, 1P MSC

AC2 C.B

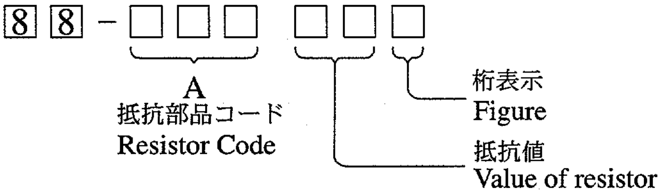
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CN101	84-NF1-650-010		CONN ASSY,3P(S-M)<1200>
⚠ PR101	87-A90-195-080		PROTECTOR 7A 125V 49
⚠ PR102	87-A90-195-080		PROTECTOR 7A 125V 49
⚠ PR103	87-026-682-080		PROTECTOR,10A 60V491
⚠ PR104	87-026-682-080		PROTECTOR,10A 60V491
⚠ PR105	87-026-681-080		PROTECTOR,5A 60V 491<1200>
⚠ PR106	87-026-681-080		PROTECTOR,5A 60V 491<1200>
WH101	87-A90-460-010		HLDR,WIRE 2.5-7P

AC1 SW C.B<HR ONLY>

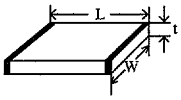
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠ S101	87-036-173-010		SW,SL 2-2-4 SDKG

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

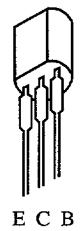
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	±5%	CJ		1.0	0.5	0.35	104
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION (MX-NH1100 / NAVH1200)



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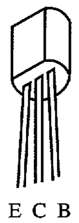

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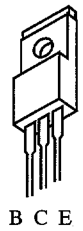

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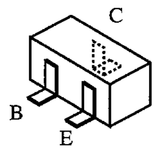

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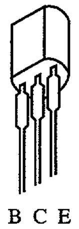

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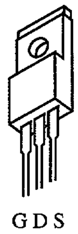

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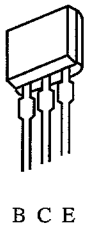

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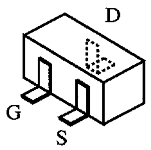

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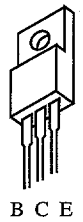

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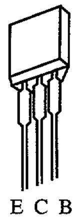

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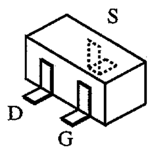
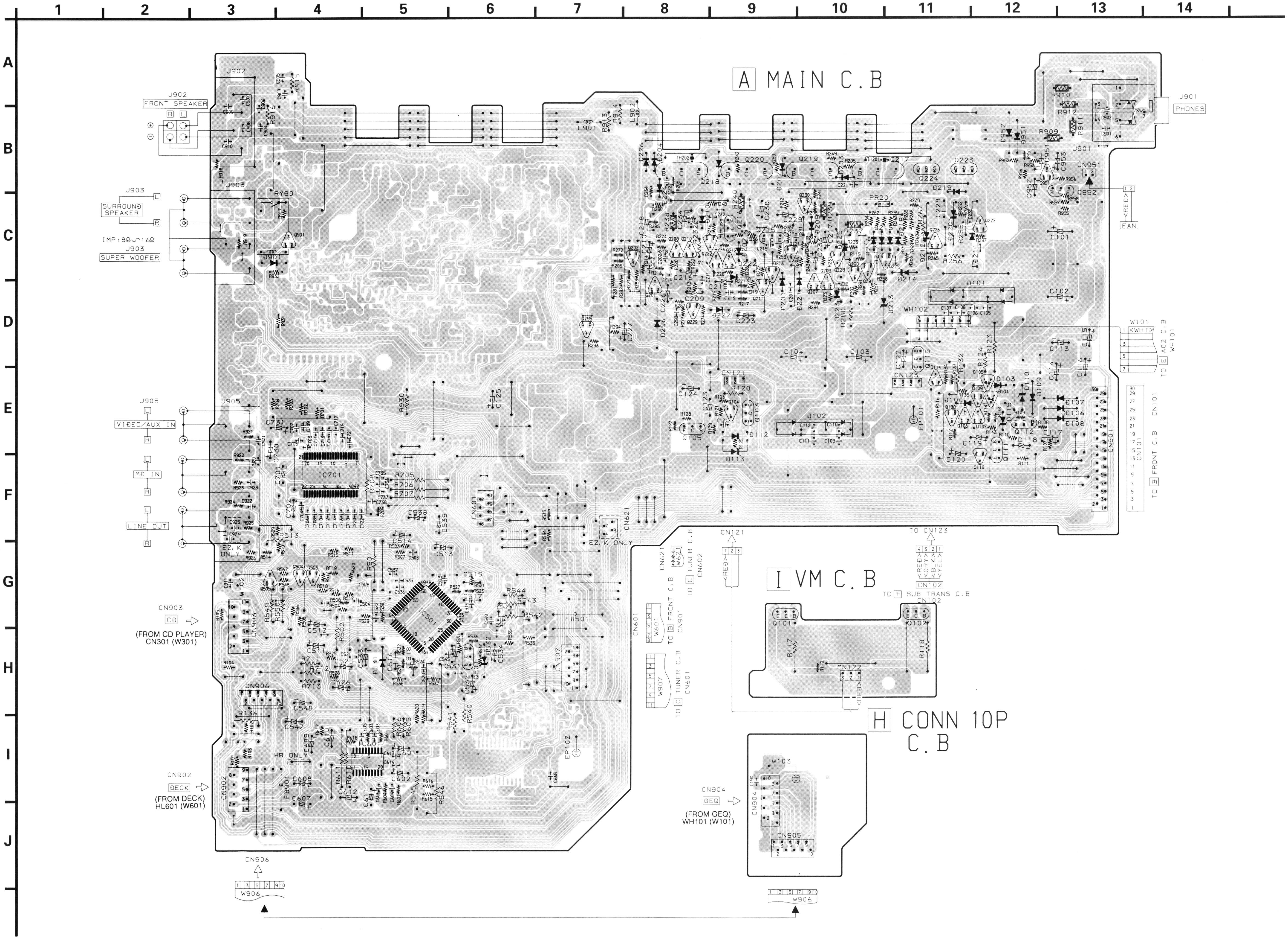


2SK360E

WIRING – 1 (MAIN : MX-NH1100)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A
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C
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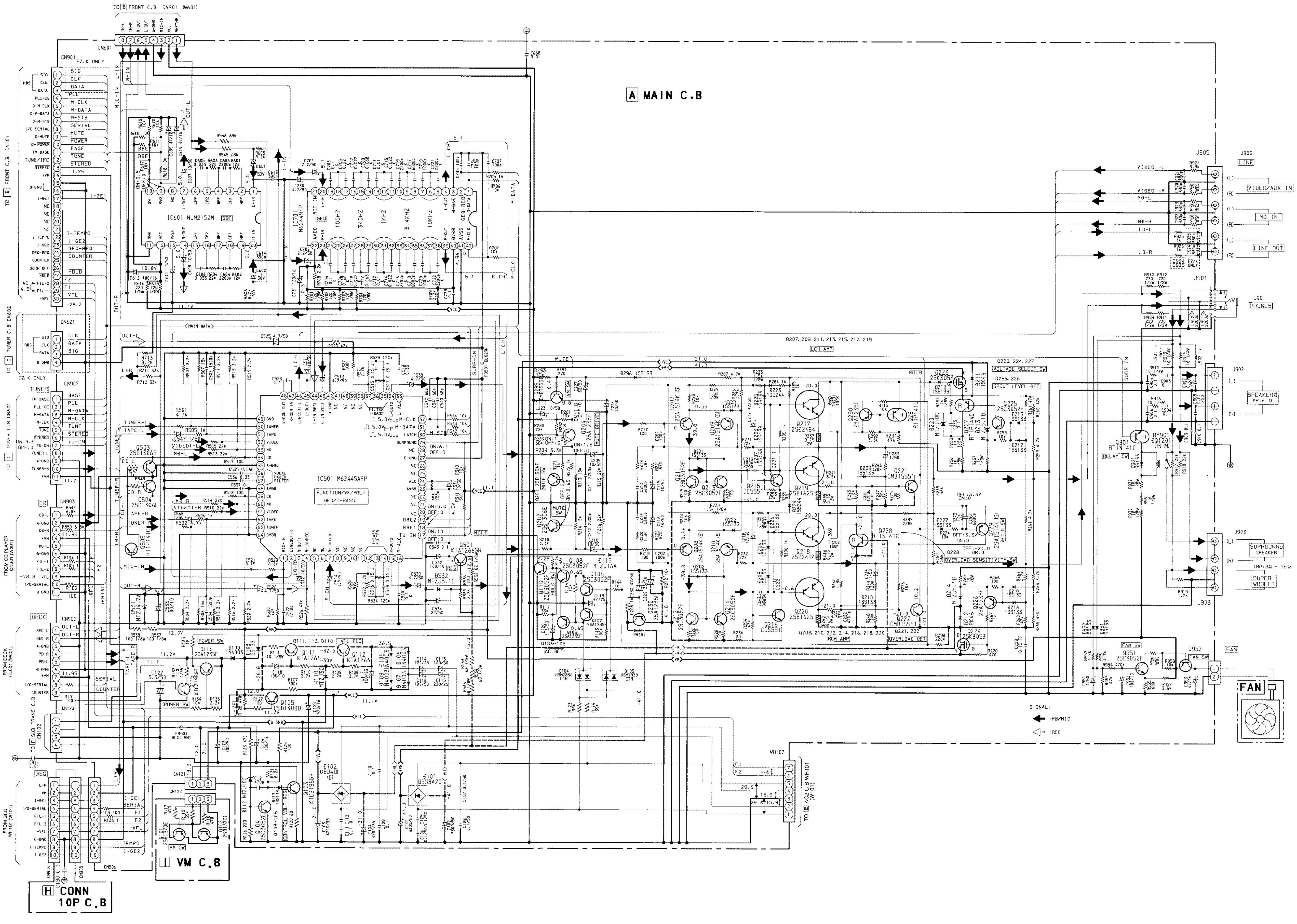
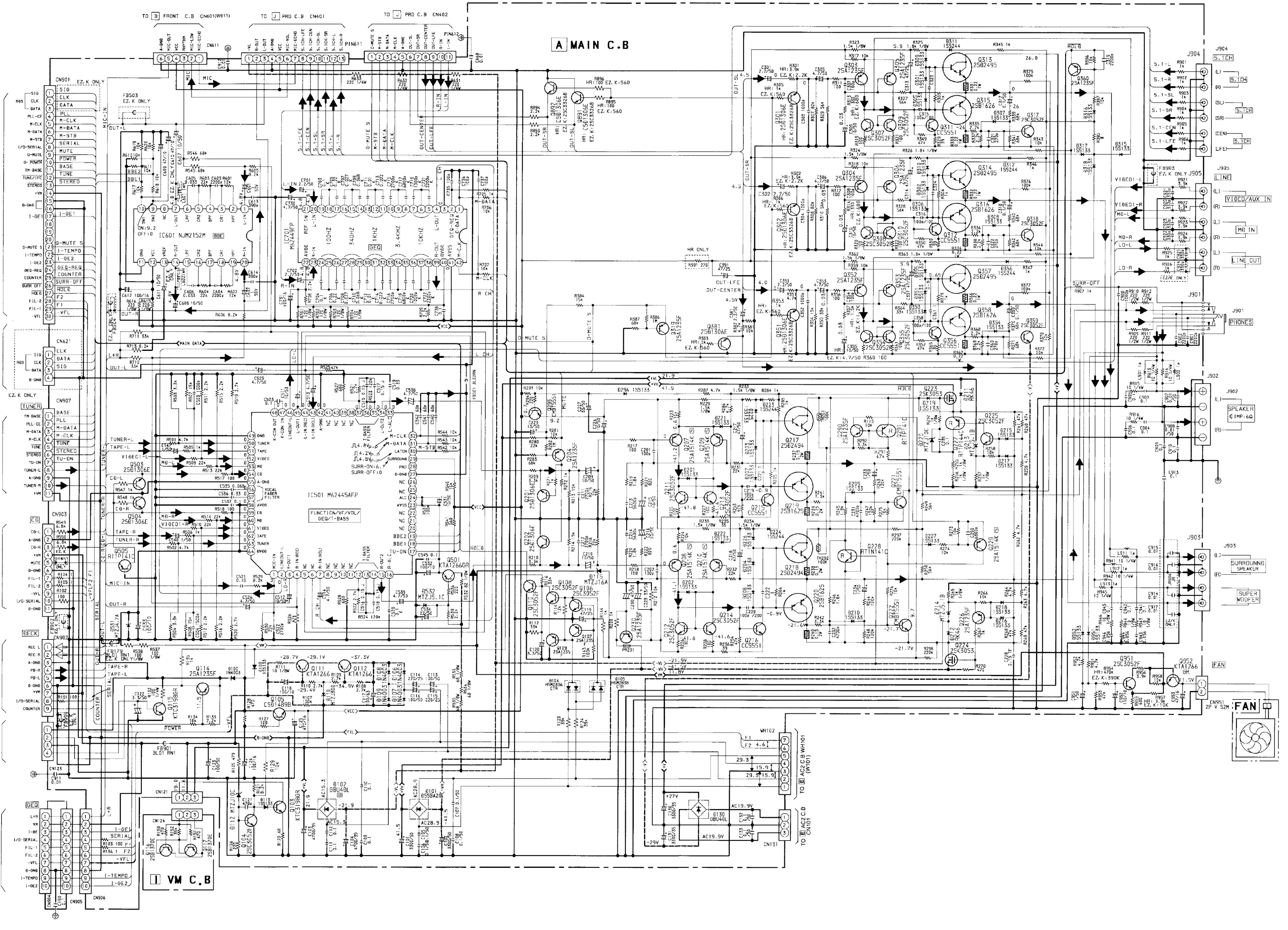
E
F
G
H
I
J
A MAIN C.B
J902
FRONT SPEAKER
R L
J903
SURROUND SPEAKER
L
R
IMP: 8Ω∽16Ω
J903
SUPER WOOFER
RY901
Q901
D901
J905
VIDEO/AUX IN
L
R
MD IN
L
R
LINE OUT
L
R
EZ. K ONLY
IC701
CN903
CD
(FROM CD PLAYER)
CN301 (W301)
CN902
DECK
(FROM DECK)
HL601 (W601)
CN906
W906
CN601
CN621
EZ. K ONLY
IC501
FB501
CN907
EP102
HR ONLY
FB901
J901
PHONES
R910
R912
R911
R909
CN951
Q952
<RED>
FAN
D101
C101
C102
WH102
W101
<WHT>
TO E AC2 C.B
WH101
CN901
TO B FRONT C.B
CN101
CN121
D102
D113
EP101
Q220
Q219
Q217
Q223
Q224
Q218
PR201
CN121
<RED>
TO CN123
<RED> <GRY> <BLK> <YEL>
CN102
TO F SUB TRANS C.B
CN102
W621
TO C TUNER C.B
CN602
W601
TO B FRONT C.B
CN901
W907
TO C TUNER C.B
CN601
I VM C.B
Q101
Q102
R117
R118
CN122
<RED>
H CONN 10P C.B
W103
CN904
GEQ
(FROM GEQ)
WH101 (W101)
CN905
W906

SCHEMATIC DIAGRAM – 1 (MAIN : MX-NH1100)

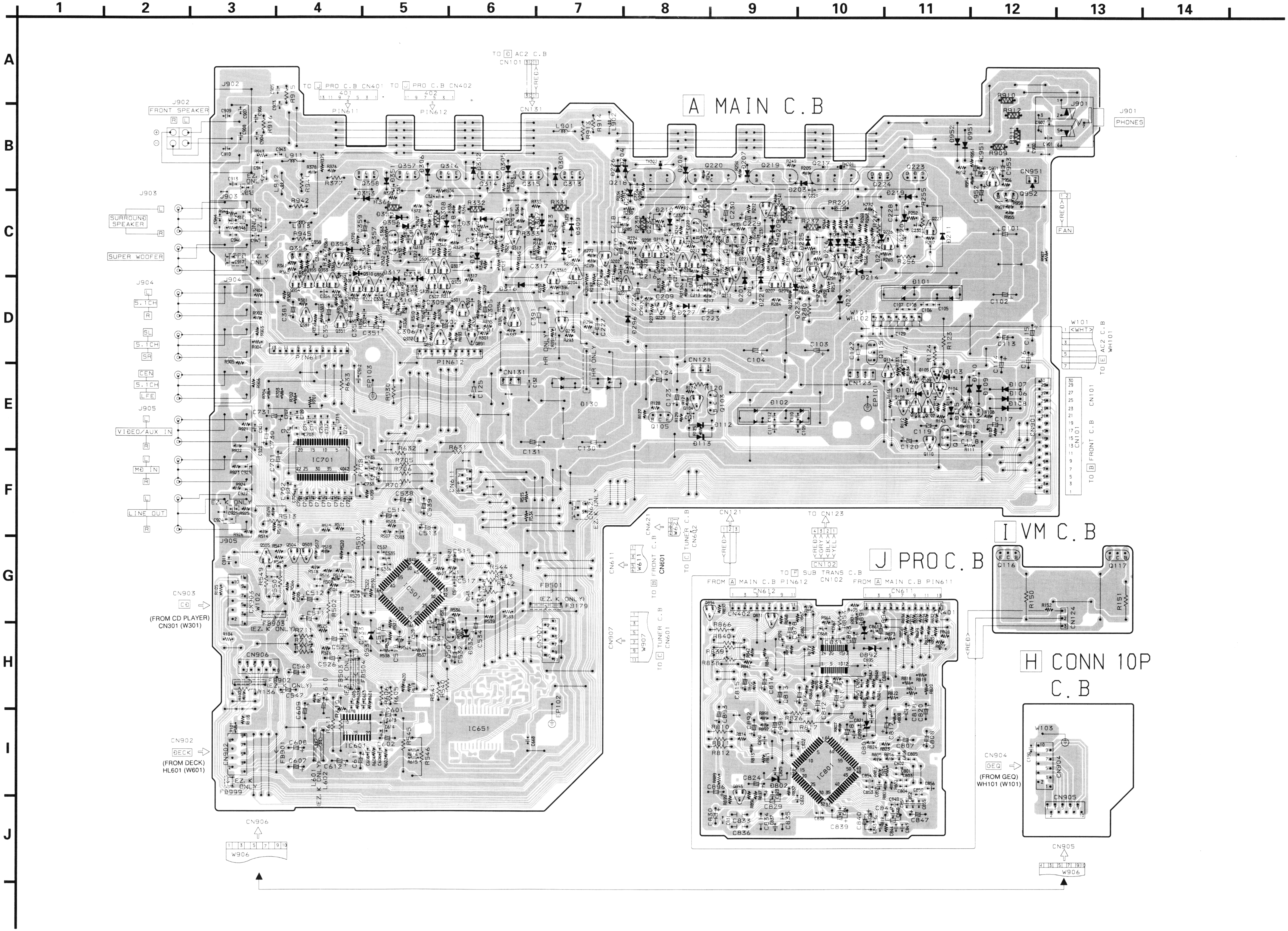


A MAIN C.B
TO B FRONT C.B CN901 (W601)
CN601
CN901
TO B FRONT C.B CN101
TO C TUNER C.B CN632
TO C TUNER C.B CN601
FROM CD PLAYER CN301 (W301)
FROM DECK HL601 (W601)
TO E SUB TRANS C.B CN102
FROM GEQ WH101 (W101)
H CONN 10P C.B
I VM C.B
IC601 NJM2152M
IC701 M62449FP
IC501 M62445AFP
FUNCTION/VF/VOL/GEQ/I-BASS
100HZ
340HZ
1KHZ
3.4KHZ
10KHZ
LCH AMP
RCH AMP
VOLTAGE SELECT SW
SPOUT LEVEL DET
OVERLOAD SENSITIVITY SW
OVERLOAD DET
MUTE SW
MUTE DRIVE
AC DET
POWER SW
VFL REG
CONTROL VOLT REG
VM SW
RELAY SW
FAN SW
FAN
J905
LINE
VIDEO/AUX IN
MD IN
LINE OUT
J901
PHONES
J902
SPEAKER
IMP:6 Ω
J903
SURROUND SPEAKER
IMP:8Ω ~ 16Ω
SUPER WOOFER
WH102
TO E AC2 C.B WH101 (W101)
SIGNAL:
:PB/MIC
:REC

SCHEMATIC DIAGRAM – 2 (MAIN : MX-NAVH1200)


A MAIN C.B
I VM C.B
FAN
TO B FRONT C.B CN601(W611)
TO J PRO C.B CN401
TO J PRO C.B CN402
IC601 NJM2152M
IC701 M62491FP
IC501 M62445AFP
FUNCTION/VF/VOL/GEQ/T-BASS
CN901
CN907
CN903
CN902
CN904
CN905
CN906
CN621
CN121
CN124
CN123
CN611
CN131
CN951
J904
J905
J901
J902
J903
5.1CH
LINE
VIDEO/AUX IN
MD IN
LINE OUT
PHONES
SPEAKER IMP:6Ω
SURROUNDING SPEAKER
SUPER WOOFER
TUNER
CD
DECK
GEQ
TO E AC2 C.B WH101 (W101)
TO E AC2 C.B CN101
FROM CD PLAYER CN501(W301)
FROM DECK HE601(W601)
FROM GEQ WH101(W101)
TO C TUNER C.B CN401
TO C TUNER C.B CN602
TO B FRONT C.B CN101
TO F SUB TRANS C.B CN102
Q217 2SD2494
Q219 2SB1625
Q218 2SD2494
Q220 2SB1625
Q313 2SD2495
Q315 2SB1626
Q314 2SD2495
Q316 2SB1626
Q357 2SD2495
Q358 2SB1626
Q951 2SC3052F
Q952 KTA1266GR
D102 GBU4DL
D101 D5SBA20
D130 GBU4DL

WIRING – 2 (MAIN : MX-NAVH1200)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14
A
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C
D
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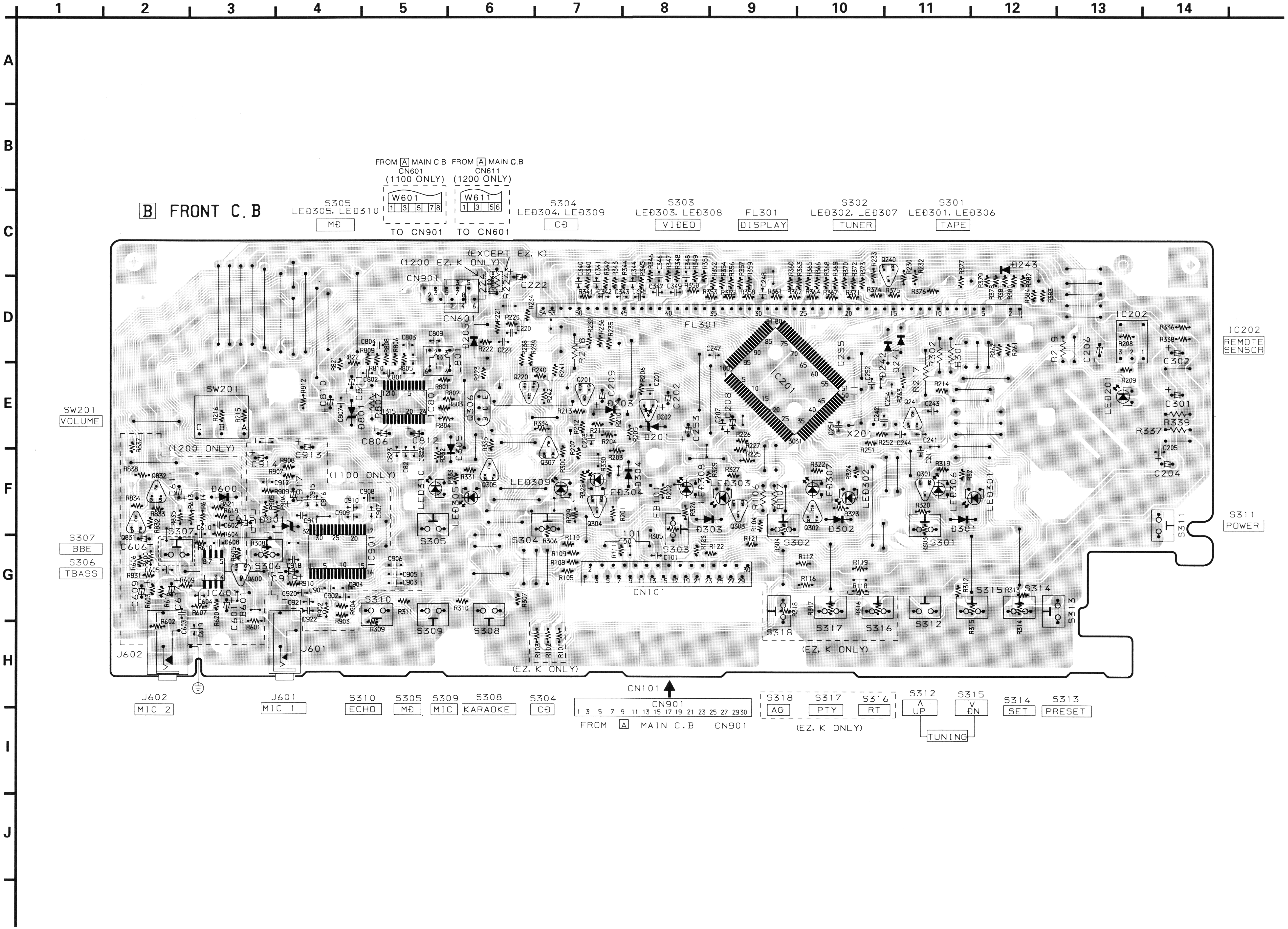
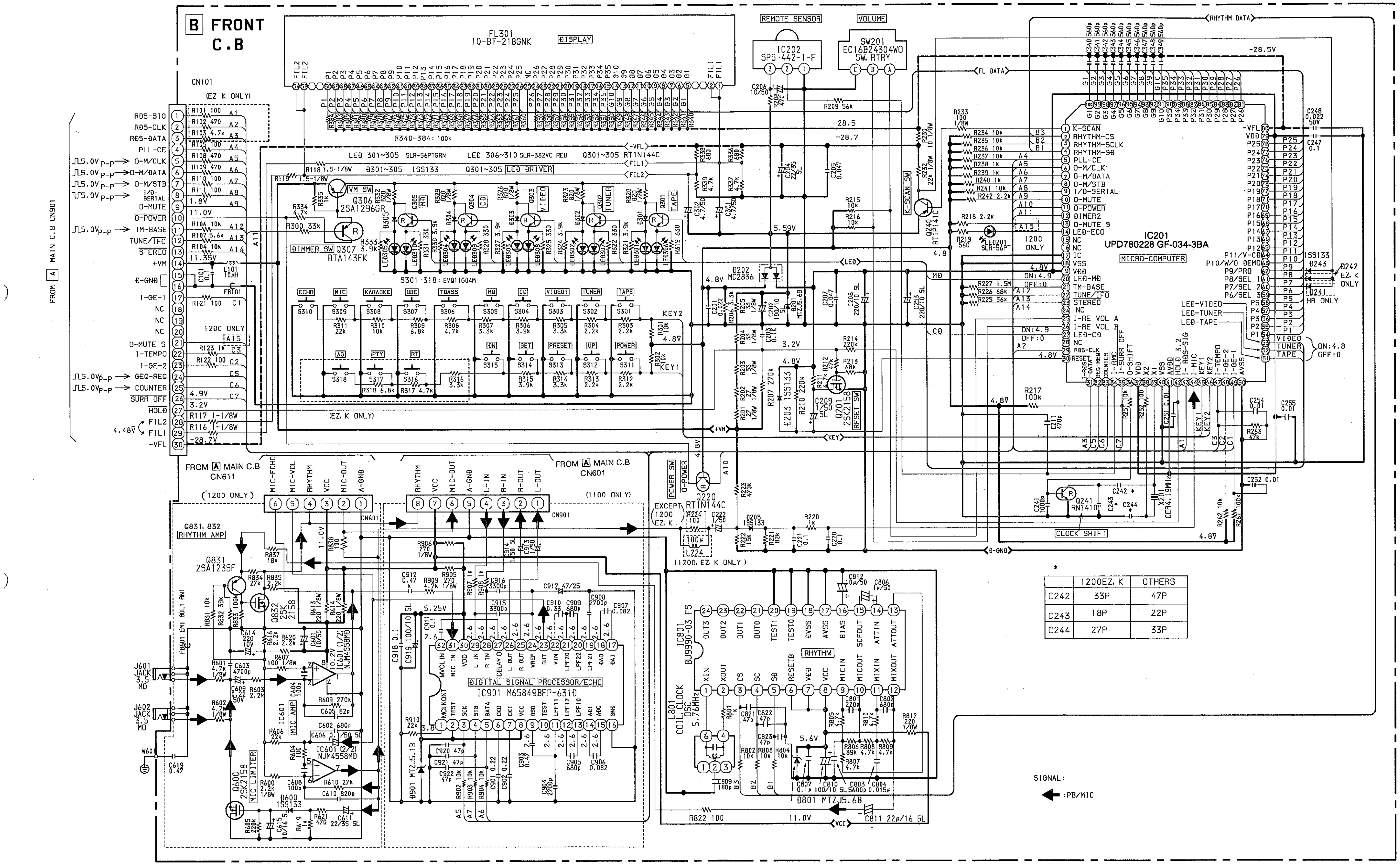
F
G
H
I
J
A MAIN C.B
J PRO C.B
I VM C.B
H CONN 10P C.B
TO D AC2 C.B CN101
TO J PRO C.B CN401
TO J PRO C.B CN402
PIN611
PIN612
CN131
J902
FRONT SPEAKER
R
L
J903
SURROUND SPEAKER
SUPER WOOFER
J904
5.1CH
SL
SR
CEN
LFE
J905
VIDEO/AUX IN
MD IN
LINE OUT
J901
PHONES
CN951
FAN
W101
<WHT>
TO E AC2 C.B WH101
TO B FRONT C.B CN101
CN903
CD
(FROM CD PLAYER) CN301 (W301)
CN902
DECK
(FROM DECK) HL601 (W601)
CN906
W906
CN907
TO C TUNER C.B CN601
W907
CN611
TO B FRONT C.B CN601
W611
CN621
TO C TUNER C.B CN602
W621
CN121
<RED>
TO CN123
CN102
TO F SUB TRANS C.B CN102
FROM A MAIN C.B PIN612
FROM A MAIN C.B PIN611
CN612
CN611
CN904
GEQ
(FROM GEQ) WH101 (W101)
CN905
W103
IC701
IC501
IC601
IC651
IC801
EZ. K ONLY
HR ONLY

WIRING – 3 (FRONT : MX-NH1100 / NAVH1200)

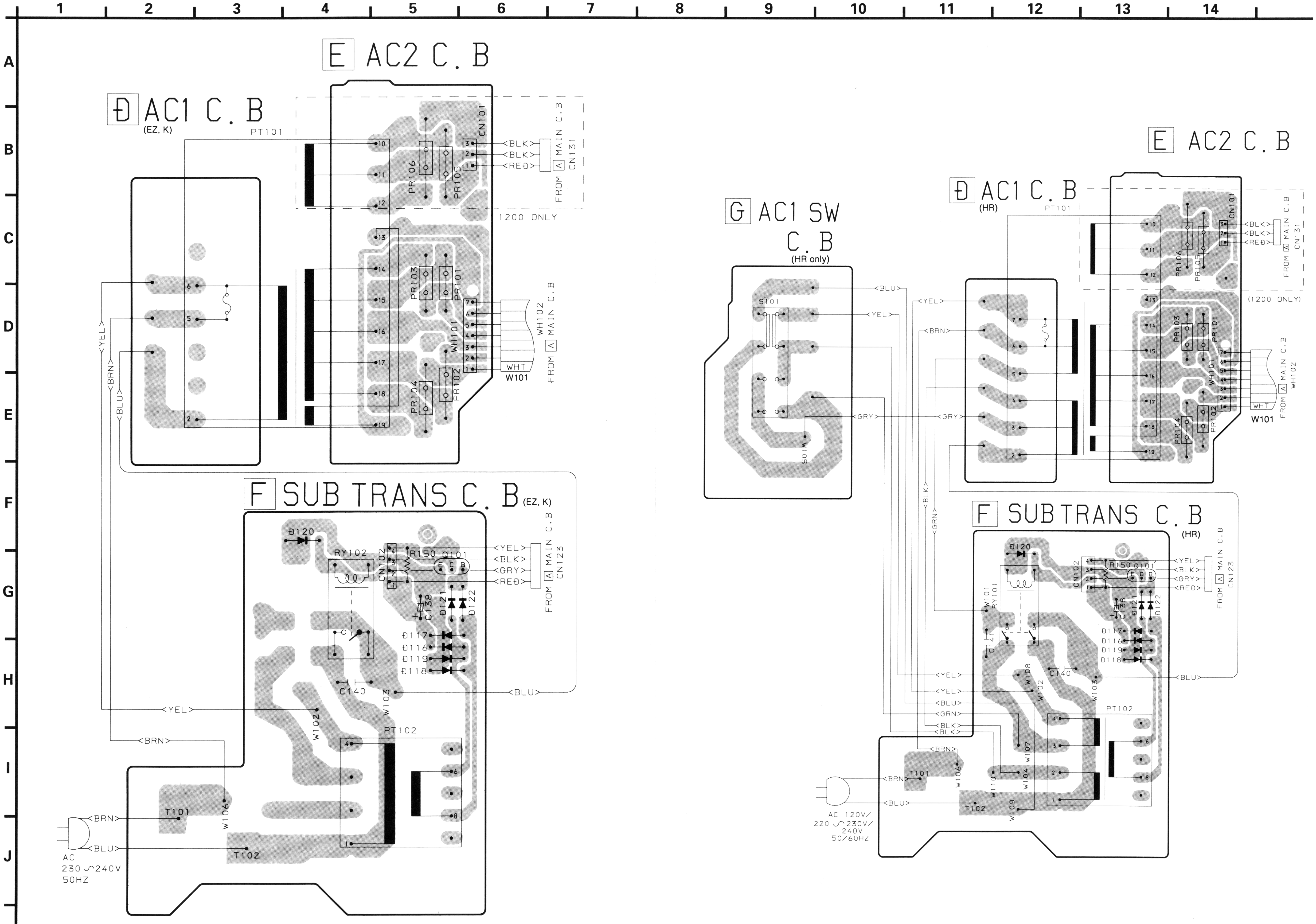

B FRONT C.B
FROM A MAIN C.B CN601 (1100 ONLY)
W601
TO CN901
FROM A MAIN C.B CN611 (1200 ONLY)
W611
TO CN601
S305 LED305, LED310 MD
S304 LED304, LED309 CD
S303 LED303, LED308 VIDEO
FL301 DISPLAY
S302 LED302, LED307 TUNER
S301 LED301, LED306 TAPE
IC202 REMOTE SENSOR
SW201 VOLUME
S307 BBE
S306 TBASS
S311 POWER
(1200 EZ, K ONLY)
(EXCEPT EZ, K)
CN901
CN601
IC201
FL301
IC202
IC601
IC901
(1200 ONLY)
(1100 ONLY)
(EZ, K ONLY)
CN101
J602 MIC 2
J601 MIC 1
S310 ECHO
S305 MD
S309 MIC
S308 KARAOKE
S304 CD
CN101
CN901
1 3 5 7 9 11 13 15 17 19 21 23 25 27 2930
FROM A MAIN C.B CN901
S318 AG
S317 PTY
S316 RT
(EZ, K ONLY)
S312 ∧ UP
S315 ∨ DN
TUNING
S314 SET
S313 PRESET
1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I J

SCHEMATIC DIAGRAM – 3 (FRONT : MX-NH1100 / NAVH1200)


B FRONT C.B
FL301 10-BT-218GNK DISPLAY
REMOTE SENSOR
IC202 SPS-442-1-F
VOLUME
SW201 EC16B24304WO SW. RTRY
CN101
(EZ K ONLY)
FROM A MAIN C.B CN901
RDS-SIG
RDS-CLK
RDS-DATA
PLL-CE
O-M/CLK
O-M/DATA
O-M/STB
I/O-SERIAL
O-MUTE
O-POWER
TM-BASE
TUNE/IFC
STEREO
+VM
D-GND
I-GE-1
NC
O-MUTE S
I-TEMPO
I-GE-2
GEQ-REQ
COUNTER
SURR OFF
HOLD
FIL2
FIL1
-VFL
LED 301~305 SLR-56PTGRN
LED 306~310 SLR-332VC RED
Q301~305 RT1N144C
D301~305 1SS133
Q301~305 LED DRIVER
R340-384: 100k
Q306 2SA1296GR
VM SW
Q307 DTA143EK
DIMMER SW
S301-318: EVQ11G04M
ECHO
MIC
KARAOKE
BBE
TBASS
MD
CD
VIDEO1
TUNER
TAPE
ON
SET
PRESET
UP
POWER
AG
PTY
RT
KEY2
KEY1
(EZ K ONLY)
D202 MC2836
Q201 2SK2158
RESET SW
Q240 RT1P141C
K-SCAN SW
LED201 SLR-56PT
IC201 UPD780228 GF-034-3BA
MICRO-COMPUTER
RHYTHM DATA
FL DATA
-28.5V
CLOCK SHIFT
Q241 RN1410
X201 CER4.19MHz
D242 EZ, K ONLY
D243 HR ONLY
D-GND
Q220 RT1N144C
POWER SW
FROM A MAIN C.B CN611
(1200 ONLY)
FROM A MAIN C.B CN601
(1100 ONLY)
MIC-ECHO
MIC-VOL
RHYTHM
VCC
MIC-OUT
A-GND
L-IN
R-IN
R-OUT
L-OUT
CN901
Q831, 832 RHYTHM AMP
Q831 2SA1235F
Q832 2SK2158
IC601 (1/2) NJM4558MD
IC601 (2/2) NJM4558MD
MIC AMP
Q600 2SK2158
MIC LIMITER
D600 1SS133
J601 JACK 3.5 MO
J602 JACK 3.5 MO
IC901 M65849BFP-631D
DIGITAL SIGNAL PROCESSOR/ECHO
D901 MTZJ5.1B
IC801 BU9990-03 FS
RHYTHM
L801 COIL CLOCK OSC 5.76MHz
D801 MTZJ5.6B
(1200, EZ, K ONLY)
EXCEPT (1200 EZ, K)
SIGNAL:
:PB/MIC

*

	1200EZ, K	OTHERS
C242	33P	47P
C243	18P	22P
C244	27P	33P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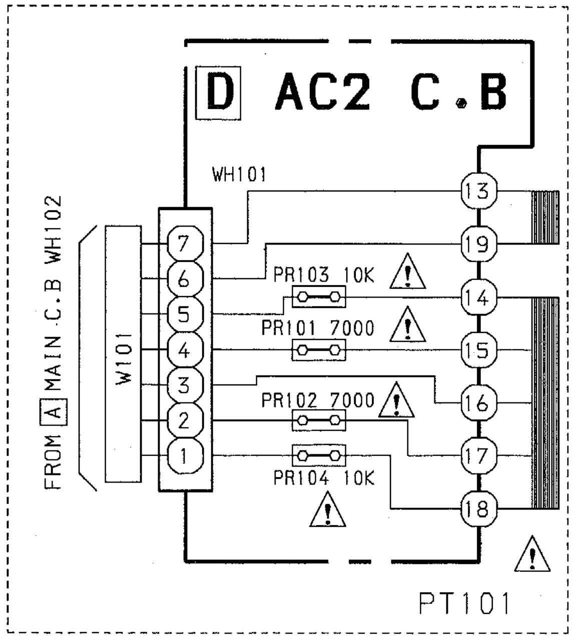
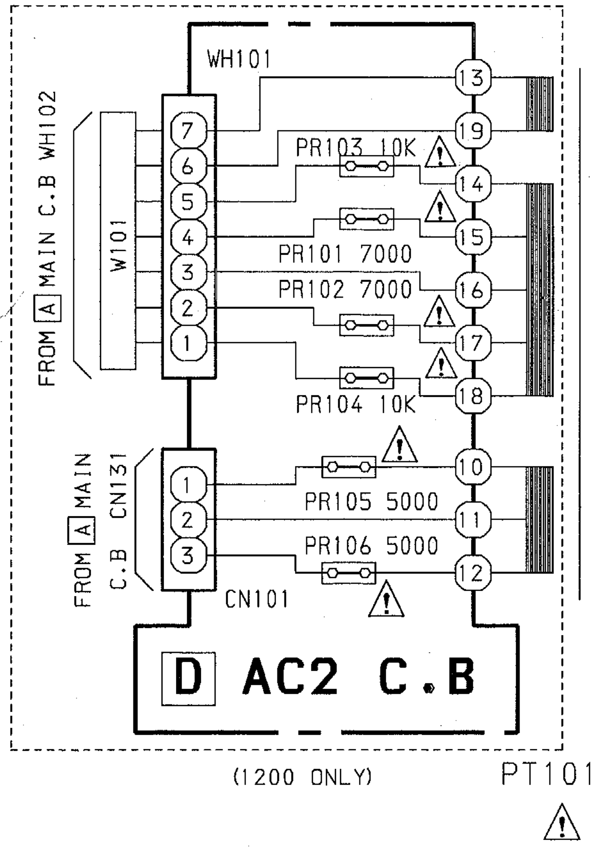
A
B
C
D
E
F
G
H
I
J
E AC2 C. B
Đ AC1 C. B
(EZ, K)
PT101
CN101
<BLK>
<BLK>
<REĐ>
FROM A MAIN C.B CN131
1200 ONLY
PR106
PR105
PR103
PR101
PR104
PR102
WH101
WH102
FROM A MAIN C.B
WHT
W101
<YEL>
<BRN>
<BLU>
F SUB TRANS C. B (EZ, K)
Đ120
RY102
CN102
R150
Q101
E C B
<YEL>
<BLK>
<GRY>
<REĐ>
FROM A MAIN C.B CN123
C138
Đ121
Đ122
Đ117
Đ116
Đ119
Đ118
C140
W103
W102
PT102
W106
T101
T102
<BRN>
<BLU>
AC
230 ∽ 240V
50HZ
G AC1 SW C. B
(HR only)
S101
W105
<GRY>
E AC2 C. B
Đ AC1 C. B
(HR)
(1200 ONLY)
F SUBTRANS C. B
(HR)
<GRN>
W101
RY101
C141
W108
W107
W104
W110
W109
AC 120V/
220 ∽ 230V/
240V
50/60HZ

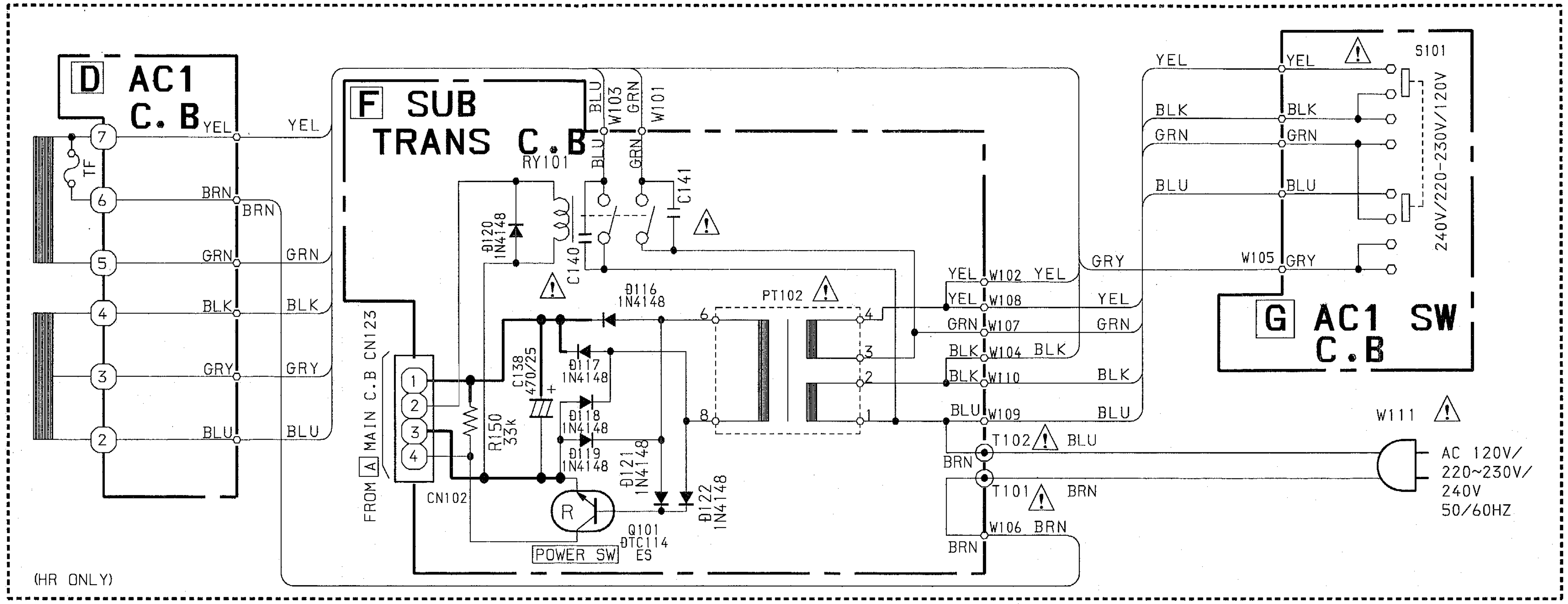
SCHEMATIC DIAGRAM – 4 (PT : MX-NH1100 / NAVH1200)


D AC2 C.B
WH101
FROM A MAIN C.B WH102
W101
PR103 10K
PR101 7000
PR102 7000
PR104 10K
7 6 5 4 3 2 1
13 19 14 15 16 17 18
PT101

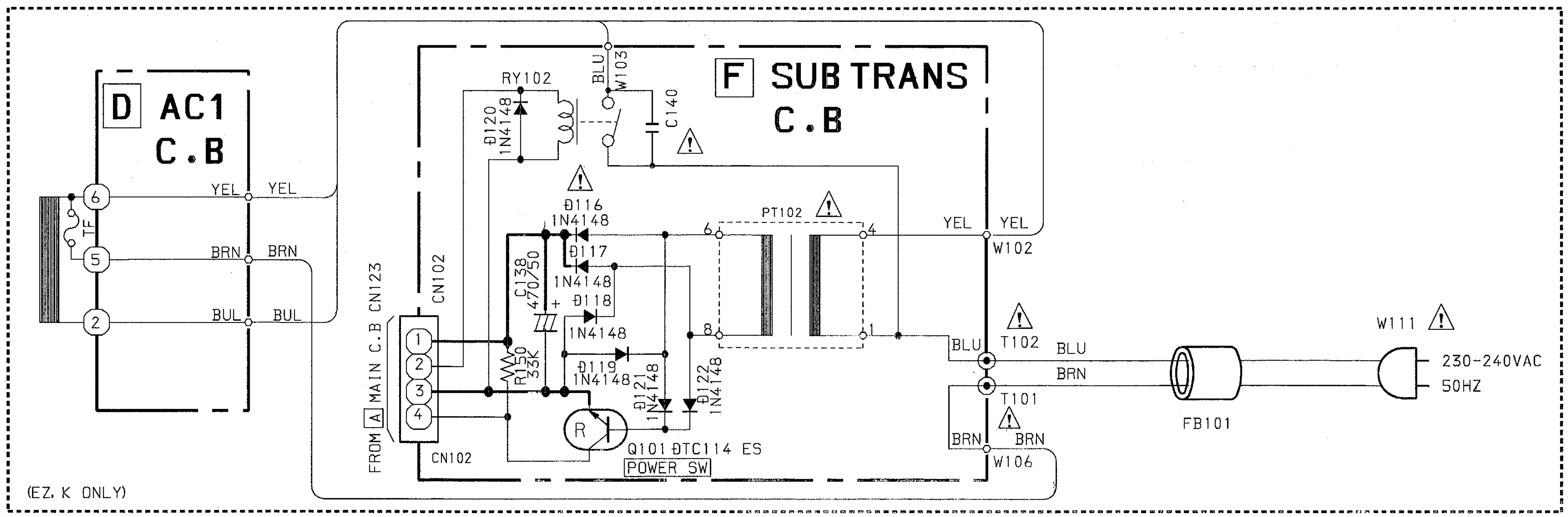
(1100 ONLY)


WH101
FROM A MAIN C.B WH102
W101
PR103 10K
PR101 7000
PR102 7000
PR104 10K
FROM A MAIN C.B CN131
PR105 5000
PR106 5000
CN101
D AC2 C.B
PT101

(1200 ONLY)

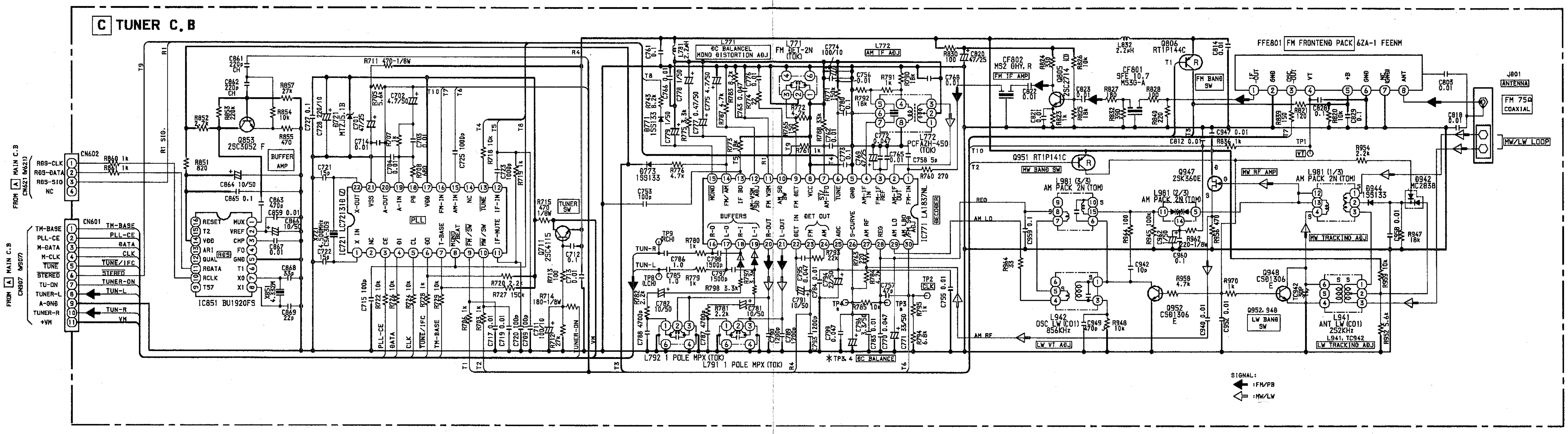

D AC1 C.B
TF
YEL BRN GRN BLK GRY BLU
F SUB TRANS C.B
RY101
W103 W101 BLU GRN
C141 C140
D120 1N4148
D116 1N4148
D117 1N4148
D118 1N4148
D119 1N4148
D121 1N4148
D122 1N4148
C138 470/25
R150 33k
FROM A MAIN C.B CN123
CN102
Q101 DTC114 ES
POWER SW
PT102
W102 W108 W107 W104 W110 W109 W106 W105
T102 T101
G AC1 SW C.B
S101
240V/220-230V/120V
W111
AC 120V/ 220~230V/ 240V 50/60HZ

(HR ONLY)

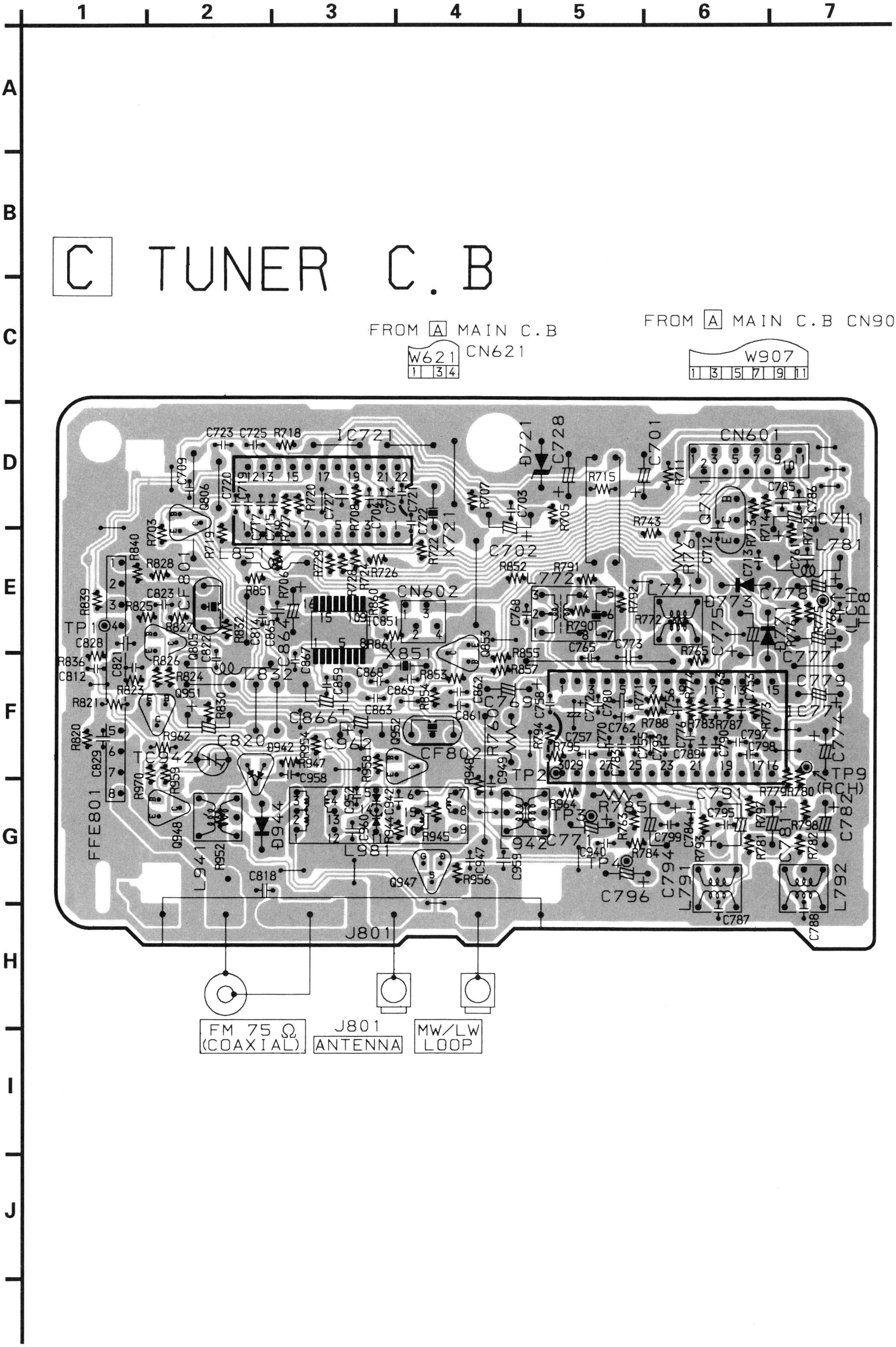

D AC1 C.B
TF
YEL BRN BUL
F SUB TRANS C.B
RY102
W103 BLU
C140
D120 1N4148
D116 1N4148
D117 1N4148
D118 1N4148
D119 1N4148
D121 1N4148
D122 1N4148
C138 470/50
R150 33K
FROM A MAIN C.B CN123
CN102
Q101 DTC114 ES
POWER SW
PT102
W102 W106
T102 T101
FB101
W111
230-240VAC 50HZ

(EZ, K ONLY)

SCHEMATIC DIAGRAM – 5 (TUNER : MX-NH1100 / NAVH1200 <EZ, K>)


C TUNER C.B
FROM A MAIN C.B CN621 (W621)
FROM A MAIN C.B CN907 (W507)
CN602
RDS-CLK
RDS-DATA
RDS-SIG
NC
CN601
TM-BASE
PLL-CE
M-DATA
M-CLK
TUNE
STEREO
TU-ON
TUNER-L
A-GND
TUNER-R
+VM
IC851 BU1920FS
Q853 2SC3052 F
BUFFER AMP
IC721 LC72131D (Z)
PLL
Q711 2SC4115
TUNER SW
IC771 LA1837NL
BUFFERS
DET OUT
DECODER
DC BALANCE
MONO DISTORTION ADJ
FM DET-2N (TOK)
AM IF ADJ
L772 PCFAZH-450 (TOK)
L792 1 POLE MPX (TOK)
L791 1 POLE MPX (TOK)
*TP3, 4 DC BALANCE
CF802 MSZ GHY, R
FM IF AMP
Q805 2SC2714 (O)
CF801 SFE 10.7 MS3G-A
Q806 RT1P144C
FM BAND SW
FFE801 FM FRONTEND PACK 6ZA-1 FEENM
J801 ANTENNA
FM 75Ω COAXIAL
MW/LW LOOP
Q951 RT1P141C
MW BAND SW
L981 (3/3) AM PACK 2N (TOK)
L981 (2/3) AM PACK 2N (TOK)
Q947 2SK360E
MW RF AMP
L981 (1/3) AM PACK 2N (TOK)
D944 1SS133
D942 HC285B
MW TRACKING ADJ
L942 OSC LW (COIL) 856KHz
LW VT ADJ
Q952 CSD1306
Q948 CSD1306
Q952, 948 LW BAND SW
L941 ANT LW (COIL) 252KHz
L941, TC942 LW TRACKING ADJ
SIGNAL:
:FM/PB
:MW/LW

WIRING – 5 (TUNER : MX-NH1100 / NAVH1200 <EZ, K>)


1
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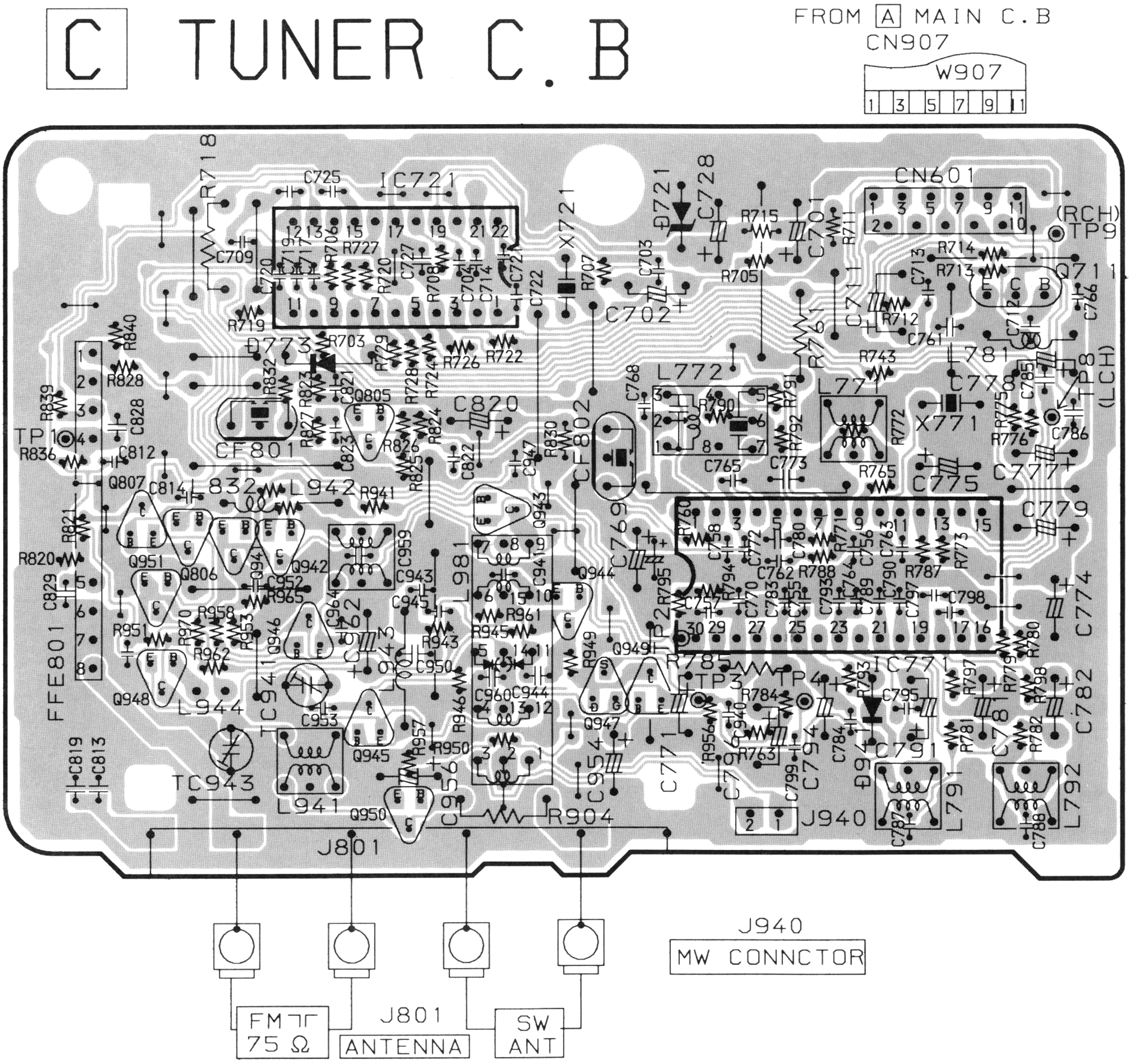
5
6
7
A
B
C
D
E
F
G
H
I
J
C TUNER C.B
FROM A MAIN C.B
W621
CN621
1 3 4
FROM A MAIN C.B CN907
W907
1 3 5 7 9 11
CN601
IC721
D721
C728
C701
C723
C725
R718
C709
Q806
C720
R715
R711
C785
C786
C711
R707
C703
R705
R743
Q711
R714
R713
R712
X721
C702
L781
R703
R719
L851
R840
R828
CF801
R852
R791
L772
R761
C712
C713
R729
R726
R706
R851
CN602
L771
D773
C778
C761
R839
C823
R825
R827
R832
R860
TC851
R792
R772
C775
TP8
(LCH)
TP1
C828
Q805
C822
C814
C865
C864
C768
R790
C773
R765
C777
R836
C812
R826
R824
R823
L832
C867
X851
C868
C859
Q853
R855
R857
R853
C762
C779
Q951
R830
C869
C863
R854
C861
C758
IC771
R821
C866
C962
Q952
R760
C757
C770
C789
C797
C798
C774
R820
C829
R962
C820
D942
R954
R947
C958
R958
CF802
C949
R948
TP2
TP9
(RCH)
R779
R780
R970
R959
TC942
C791
C795
C782
FFE801
Q948
L941
R952
D944
C818
L981
C952
C942
R944
R945
C960
L942
C771
R964
TP3
R785
R763
C799
C784
R797
R793
R781
C781
R798
R782
C959
C947
Q947
R956
C940
TP4
R784
C794
C791
L791
L792
C796
C787
C788
J801
FM 75 Ω
(COAXIAL)
J801
ANTENNA
MW/LW
LOOP

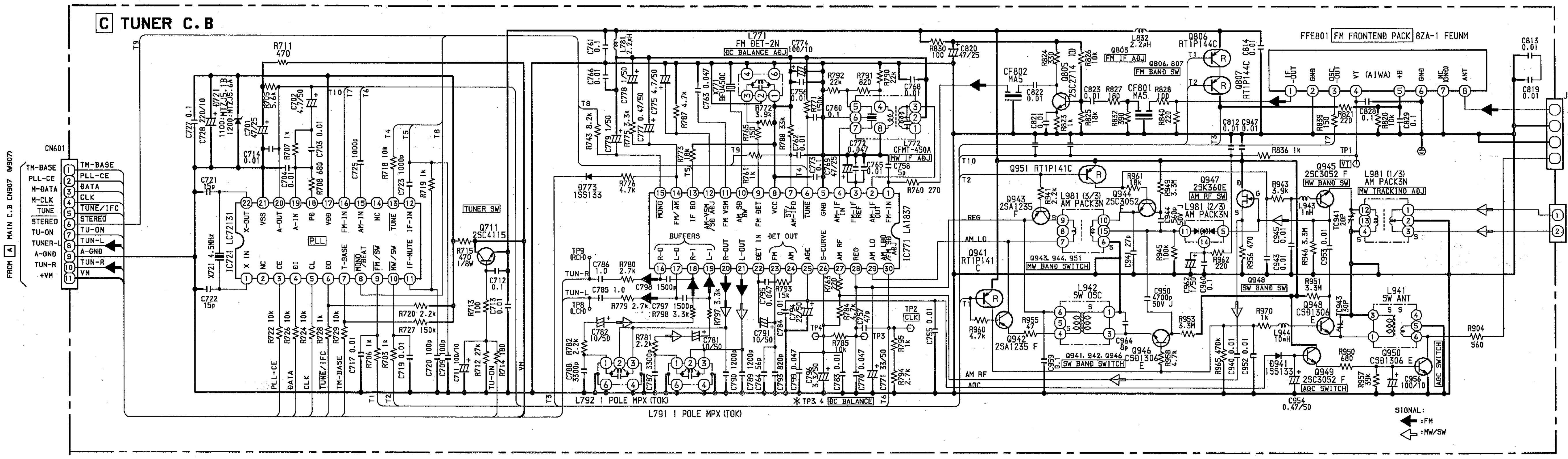
1 2 3 4 5 6 7

A B C D E F G H I J

C TUNER C. B

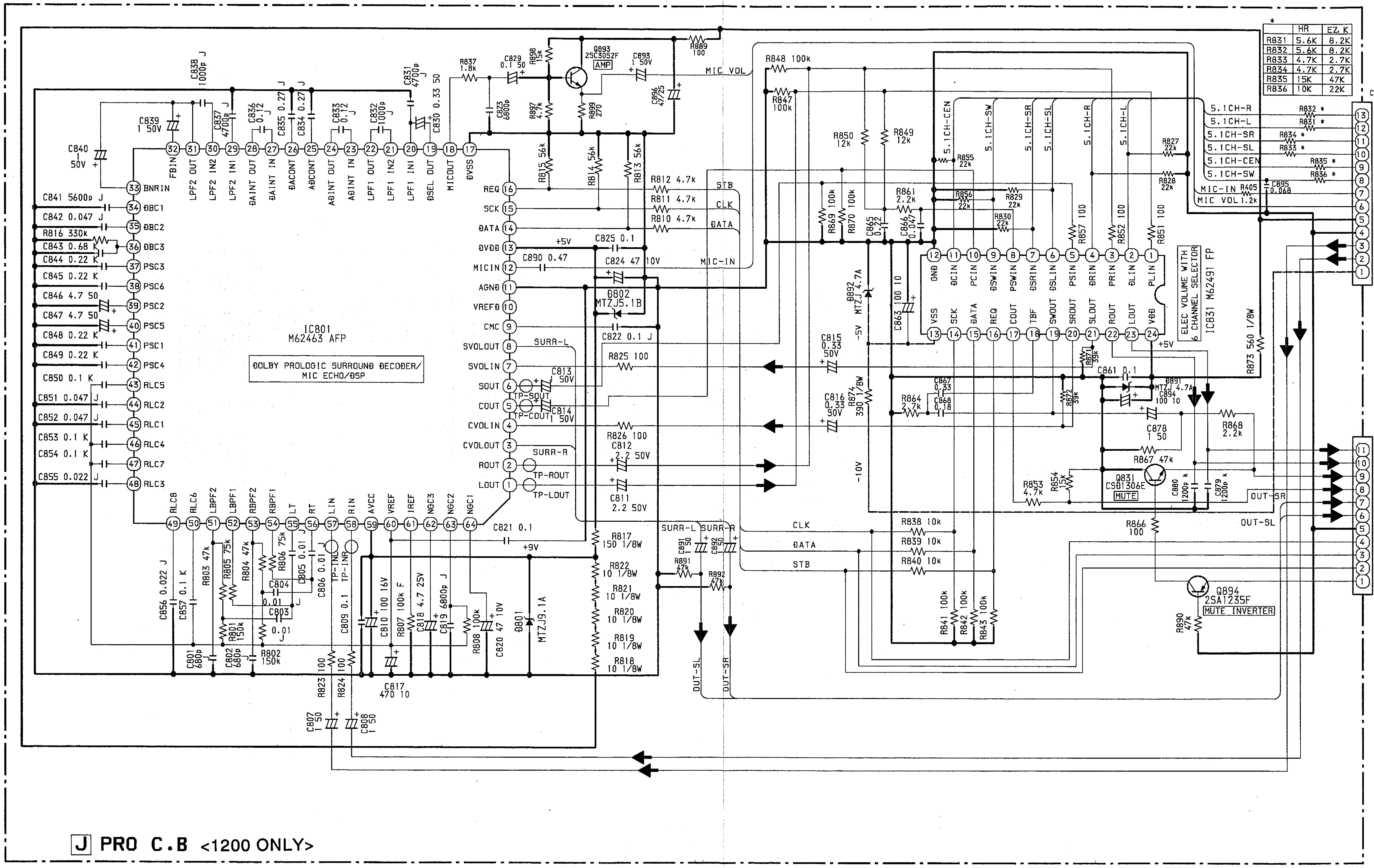

FROM A MAIN C.B
CN907
W907
1 3 5 7 9 11
IC721
CN601
(RCH) TP9
(LCH) TP8
Q711
E C B
X721
D721
C728
C725
R718
C709
R719
R715
C701
R711
R705
R714
R713
C713
C711
R712
C761
C766
C712
R761
R743
L781
C778
C785
L772
R790
C768
L771
R772
X771
R775
R776
C786
C777
C775
R765
C765
C773
CF802
C769
C779
C774
IC771
C782
R780
R779
R798
R797
C795
C791
R781
R782
D940
C794
C799
R784
R763
C940
R956
TP3
TP4
C771
TP2
R785
Q947
Q949
Q944
R949
C954
C955
R904
C957
Q950
R950
R957
Q945
L941
TC943
L944
Q948
C953
C941
TC941
Q946
Q942
C952
R965
R953
R958
R970
R962
R951
Q951
Q806
Q941
Q807
C814
L832
L942
R941
C959
C943
C945
R943
C950
C961
C962
L981
C944
C960
R961
R945
R946
C947
C943
C822
R830
C702
R707
C703
C722
C820
C821
C823
R824
R825
R826
R827
R823
R832
CF801
Q805
D773
R703
R729
R728
R726
R724
R722
R720
R727
R706
R708
C704
C714
C727
C719
C717
C720
R840
R828
R839
C828
TP1
R836
C812
R821
R820
C829
FFE801
C819
C813
C787
C788
L791
L792
J940
J801
FM 75 Ω
J801 ANTENNA
SW ANT
J940
MW CONNCTOR

SCHEMATIC DIAGRAM – 6 (TUNER : MX-NH1100 / NAVH1200 <HR>)



C TUNER C.B
FROM A MAIN C.B CN907 (W907)
CN601
TM-BASE
PLL-CE
M-DATA
M-CLK
TUNE
STEREO
TU-ON
TUNER-L
A-GND
TUN-R
+VM
DATA
CLK
TUNE/IFC
TUN-L
VM
IC721 LC72131
X721 4.5MHz
PLL
R711 470
Q711 2SC4115
TUNER SW
D773 1SS133
IC771 LA1837
BUFFERS
DET OUT
L771 FM DET-2N
DC BALANCE ADJ
L772 CFMT-450A
MW IF ADJ
L792 1 POLE MPX (TOK)
L791 1 POLE MPX (TOK)
TP3, 4 DC BALANCE
TP1
TP2 CLK
TP8 (LCH)
TP9 (RCH)
CF802 MA5
CF801 MA5
Q805 2SC2714
Q806 RT1P144C
Q807 RT1P144C
Q806, 807 FM BAND SW
FM IF ADJ
L832 2.2μH
FFE801 FM FRONTEND PACK 8ZA-1 FEUNM
IF OUT
GND
OSC OUT
VT (AIWA) +B
GND
NC (GND)
ANT
J801
FM 75Ω
SW
Q951 RT1P141C
Q941 RT1P141C
Q942 2SA1235 F
Q943 2SA1235 F
Q944 2SC3052
Q943, 944, 951 MW BAND SWITCH
Q945 2SC3052 F
MW BAND SW
Q947 2SK360E
AM RF SW
L981 (1/3) AM PACK3N
L981 (2/3) AM PACK3N
L981 (3/3) AM PACK3N
MW TRACKING ADJ
L942 SW OSC
Q941, 942, 946 SW BAND SWITCH
Q946 CSD1306
Q948 CSD1306
Q948 SW BAND SW
L941 SW ANT
Q949 2SC3052 F
AGC SWITCH
Q950 CSD1306 E
AGC SWITCH
D941 1SS133
J940
MW CONNECTOR
AM RF
AGC
AM LO
REG
SIGNAL:
:FM
:MW/SW

SCHEMATIC DIAGRAM – 7 (PROLOGIC : MX-NAVH1200 ONLY)



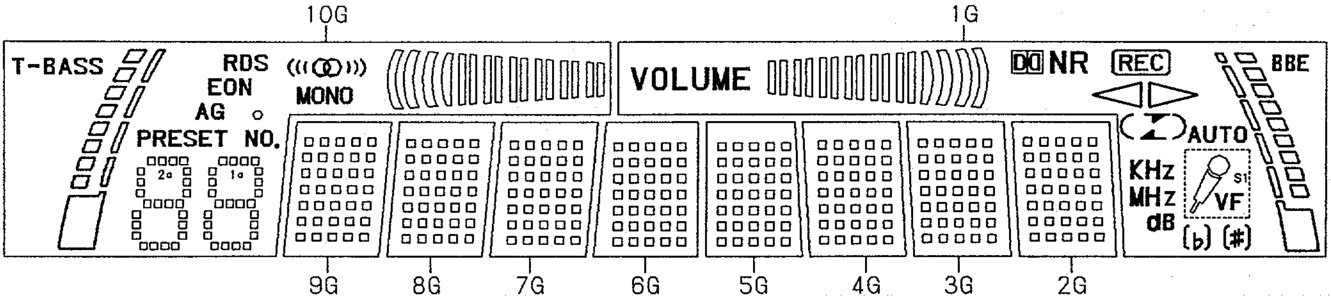
IC801
M62463 AFP
DOLBY PROLOGIC SURROUND DECODER/ MIC ECHO/DSP
IC831 M62491 FP
ELEC VOLUME WITH 6 CHANNEL SELECTOR
Q893 2SC3052F AMP
Q831 CSD1306E MUTE
Q894 2SA1235F MUTE INVERTER
D801 MTZJ9.1A
D802 MTZJ5.1B
D891 MTZJ 4.7A
D892 MTZJ 4.7A
CN401
5.1CH-R
5.1CH-L
5.1CH-SR
5.1CH-SL
5.1CH-CEN
5.1CH-SW
MIC-ECHO
MIC-VOL
VCC
A-GND
L-IN
R-IN
-V (-10V)
FROM A MAIN C.B PIN611
CN402
L-OUT
R-OUT
OUT-SW
OUT-CEN
OUT-SR
OUT-SL
A-GND
M-CLK
M-DATA
M-STB
D-MUTE S
FROM A MAIN C.B PIN612
MIC VOL
MIC-IN
STB
CLK
DATA
SURR-L
SURR-R
TP-SOUT
TP-COUT
TP-ROUT
TP-LOUT
TP-INL
TP-INR
OUT-SL
OUT-SR
+5V
+9V
-5V
-10V

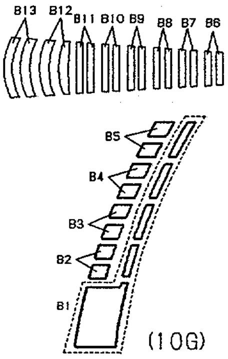
*	HR	EZ, K
R831	5.6K	8.2K
R832	5.6K	8.2K
R833	4.7K	2.7K
R834	4.7K	2.7K
R835	15K	47K
R836	10K	22K

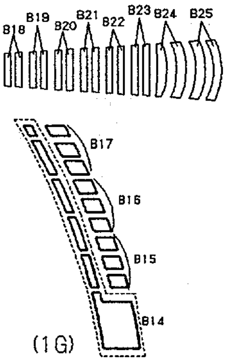
J PRO C.B <1200 ONLY>

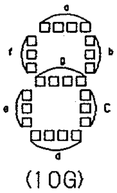
FL (10-BT-218GNK) GRID ASSIGNMENT & ANODE CONNECTION (MX-NH1100 / NAVH1200)

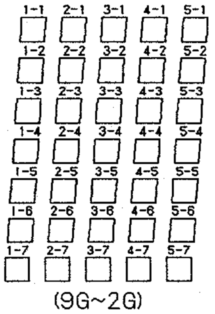
GRID ASSIGNMENT


10G
1G
T-BASS
RDS
EON
AG
PRESET NO.
MONO
2a
1a
VOLUME
DD NR
REC
AUTO
BBE
KHz
MHz
dB
S1
VF
(b) (#)
9G
8G
7G
6G
5G
4G
3G
2G


B13 B12 B11 B10 B9 B8 B7 B6
B5
B4
B3
B2
B1
(10G)


B18 B19 B20 B21 B22 B23 B24 B25
B17
B16
B15
B14
(1G)


a
f
b
g
e
c
d
(10G)

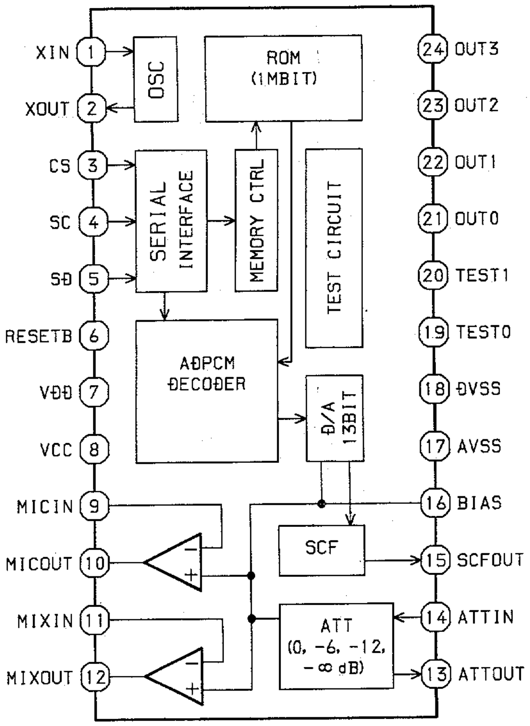

1-1 2-1 3-1 4-1 5-1
1-2 2-2 3-2 4-2 5-2
1-3 2-3 3-3 4-3 5-3
1-4 2-4 3-4 4-4 5-4
1-5 2-5 3-5 4-5 5-5
1-6 2-6 3-6 4-6 5-6
1-7 2-7 3-7 4-7 5-7
(9G~2G)

ANODE CONNECTION

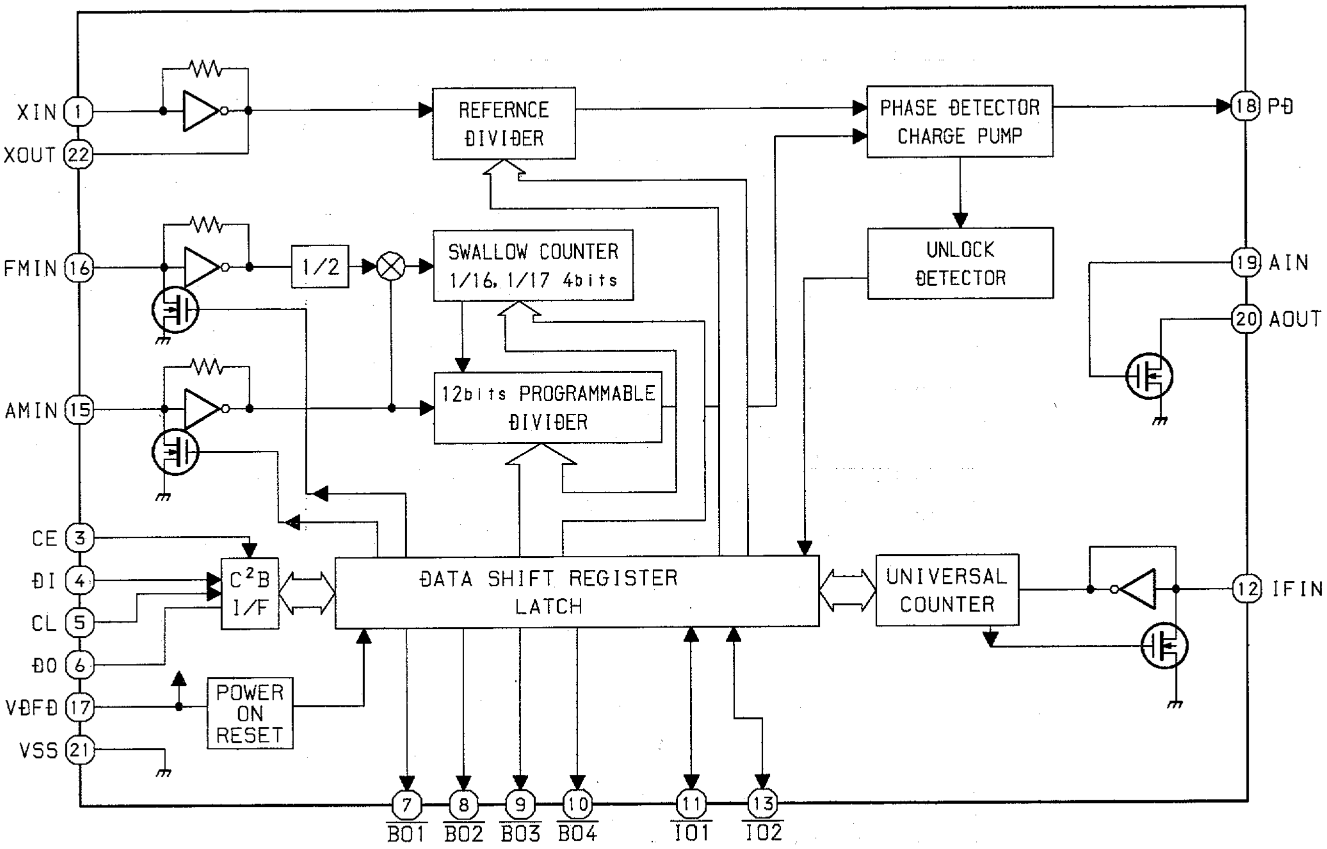
	10G	9G~2G	1G
P1	((OO))	1-1	VOLUME
P2	B6	2-1	B18
P3	B7	3-1	B19
P4	B8	4-1	B20
P5	B9	5-1	B21
P6	B10	1-2	B22
P7	B11	2-2	B23
P8	B12	3-2	B24
P9	B13	4-2	B25
P10	MONO	5-2	DD NR
P11	RDS	1-3	(REC)
P12	EON	2-3	◁
P13	AG	3-3	▷
P14	○	4-3	(
P15	PRESET No.	5-3	⇄
P16	2a	1-4	)
P17	2f	2-4	KHz
P18	2b	3-4	MHz
P19	2g	4-4	dB
P20	2e	5-4	((b))
P21	2c	1-5	♭
P22	2d	2-5	S1
P23	1a	3-5	AUTO
P24	1f	4-5	#
P25	1b	5-5	((#))
P26	1g	1-6	B14
P27	1e	2-6	B17
P28	1c	3-6	B16
P29	1d	4-6	B15
P30	T-BASS	5-6	BBE
P31	B1	1-7	-
P32	B2	2-7	-
P33	B3	3-7	-
P34	B4	4-7	-
P35	B5	5-7	-

IC BLOCK DIAGRAM (MX-NH1100 / NAVH1200)

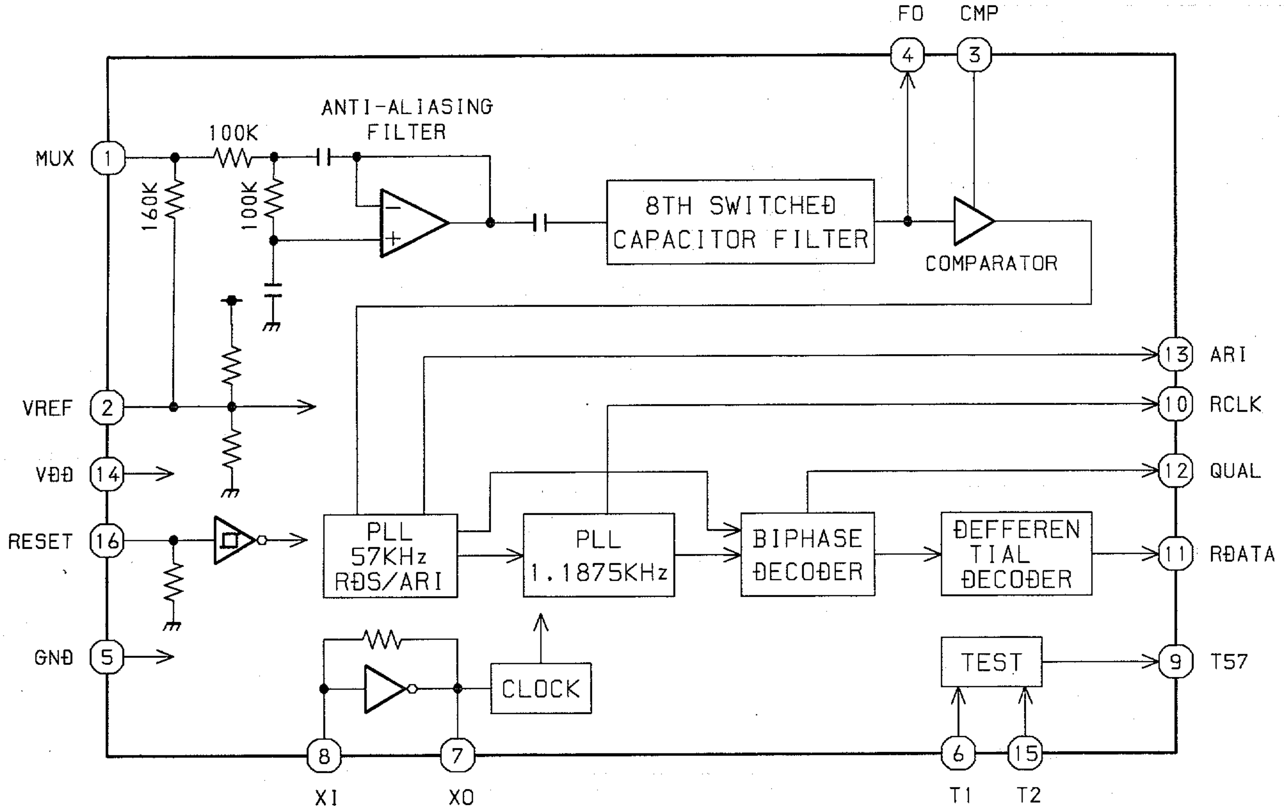
IC, BU9990-03FS


XIN 1
XOUT 2
CS 3
SC 4
SD 5
RESETB 6
VDD 7
VCC 8
MICIN 9
MICOUT 10
MIXIN 11
MIXOUT 12
OSC
ROM (1MBIT)
SERIAL INTERFACE
MEMORY CTRL
TEST CIRCUIT
ADPCM DECODER
D/A 13BIT
SCF
ATT (0, -6, -12, -∞ dB)
24 OUT3
23 OUT2
22 OUT1
21 OUT0
20 TEST1
19 TEST0
18 DVSS
17 AVSS
16 BIAS
15 SCFOUT
14 ATTIN
13 ATTOUT

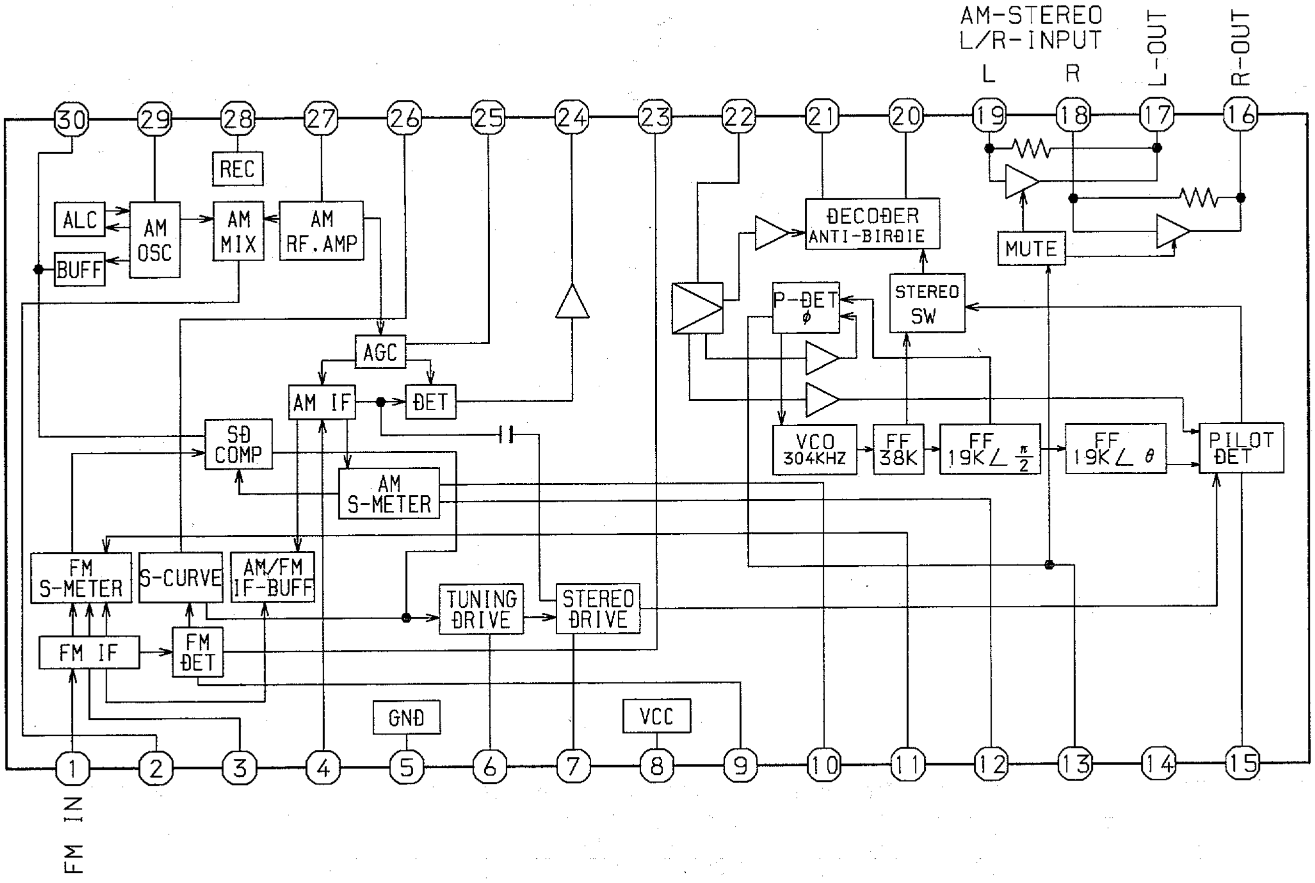
IC, LC72131D


XIN 1
XOUT 22
FMIN 16
AMIN 15
CE 3
DI 4
CL 5
DO 6
VDFD 17
VSS 21
REFERNCE DIVIDER
PHASE DETECTOR CHARGE PUMP
UNLOCK DETECTOR
1/2
SWALLOW COUNTER 1/16, 1/17 4bits
12bits PROGRAMMABLE DIVIDER
C²B I/F
DATA SHIFT REGISTER LATCH
UNIVERSAL COUNTER
POWER ON RESET
18 PD
19 AIN
20 AOUT
12 IFIN
7 BO1
8 BO2
9 BO3
10 BO4
11 IO1
13 IO2

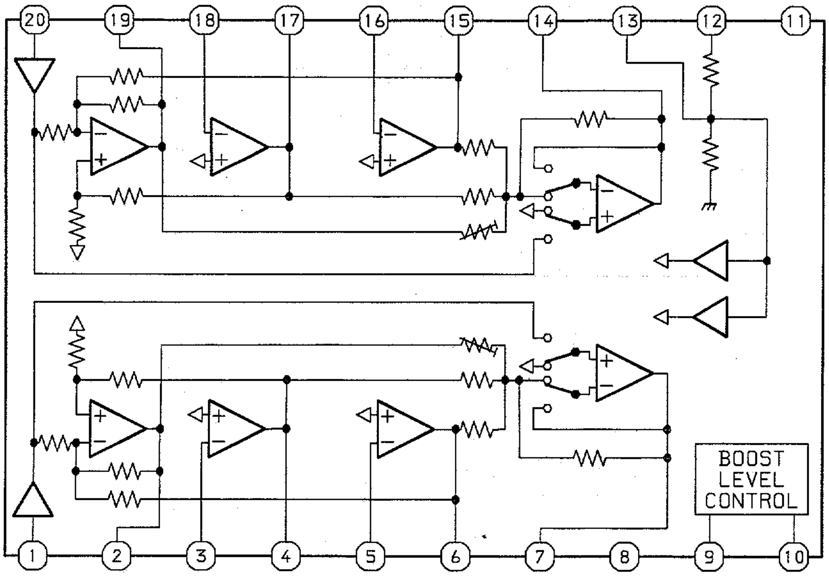
IC, BU1920FS


FO
CMP
4
3
ANTI-ALIASING FILTER
MUX
1
100K
160K
100K
8TH SWITCHED CAPACITOR FILTER
COMPARATOR
13
ARI
VREF
2
10
RCLK
VDD
14
12
QUAL
RESET
16
PLL 57KHz RDS/ARI
PLL 1.1875KHz
BIPHASE DECODER
DEFFERENTIAL DECODER
11
RDATA
GND
5
CLOCK
TEST
9
T57
8
7
6
15
XI
XO
T1
T2

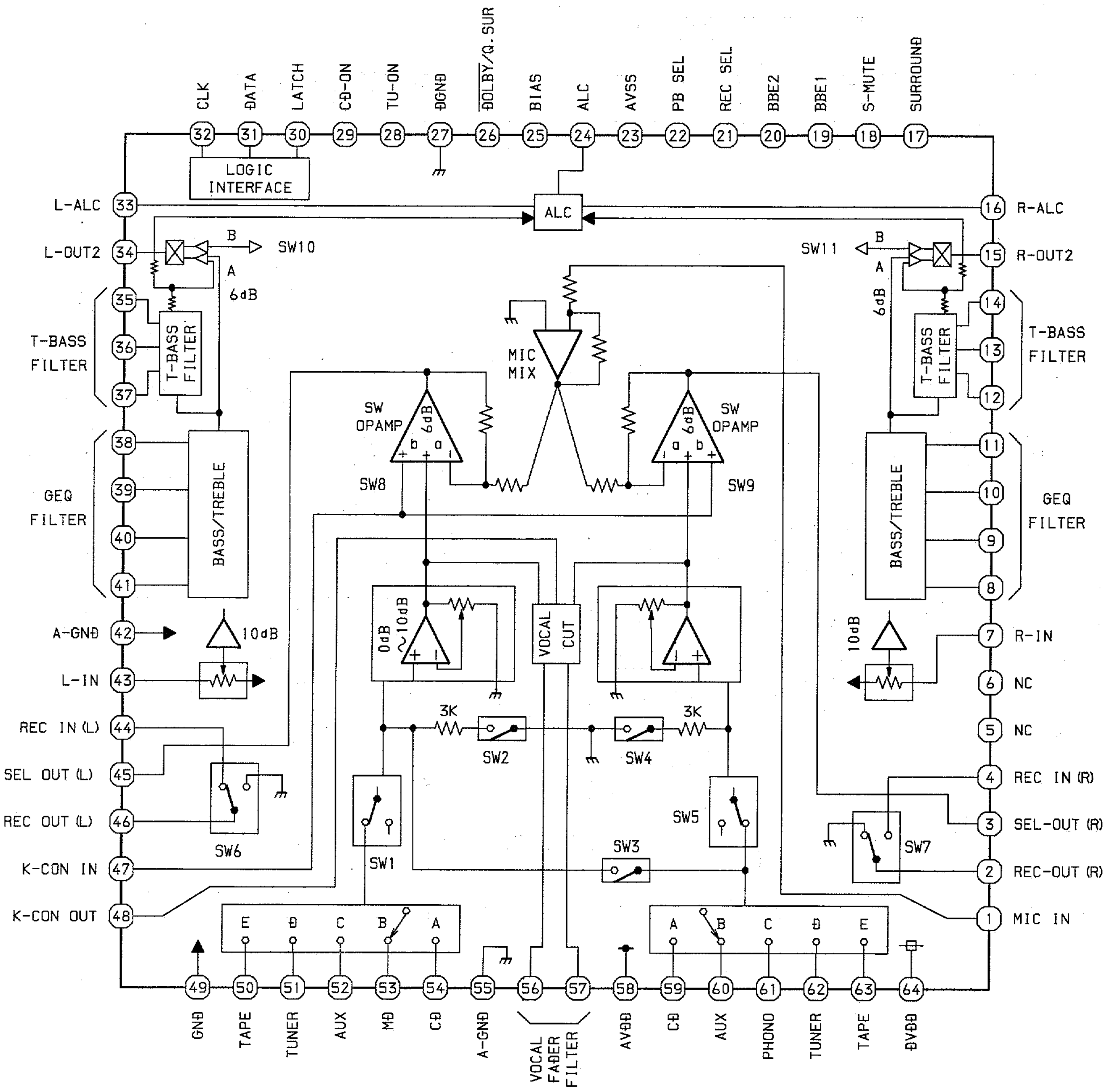
IC, LA1837NL


AM-STEREO L/R-INPUT
L
R
L-OUT
R-OUT
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
REC
ALC
AM OSC
AM MIX
AM RF.AMP
BUFF
DECODER ANTI-BIRDIE
MUTE
P-DET ϕ
STEREO SW
AGC
AM IF
DET
SD COMP
AM S-METER
VCO 304KHZ
FF 38K
FF 19K∠ π/2
FF 19K∠ θ
PILOT DET
FM S-METER
S-CURVE
AM/FM IF-BUFF
TUNING DRIVE
STEREO DRIVE
FM IF
FM DET
GND
VCC
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
FM IN

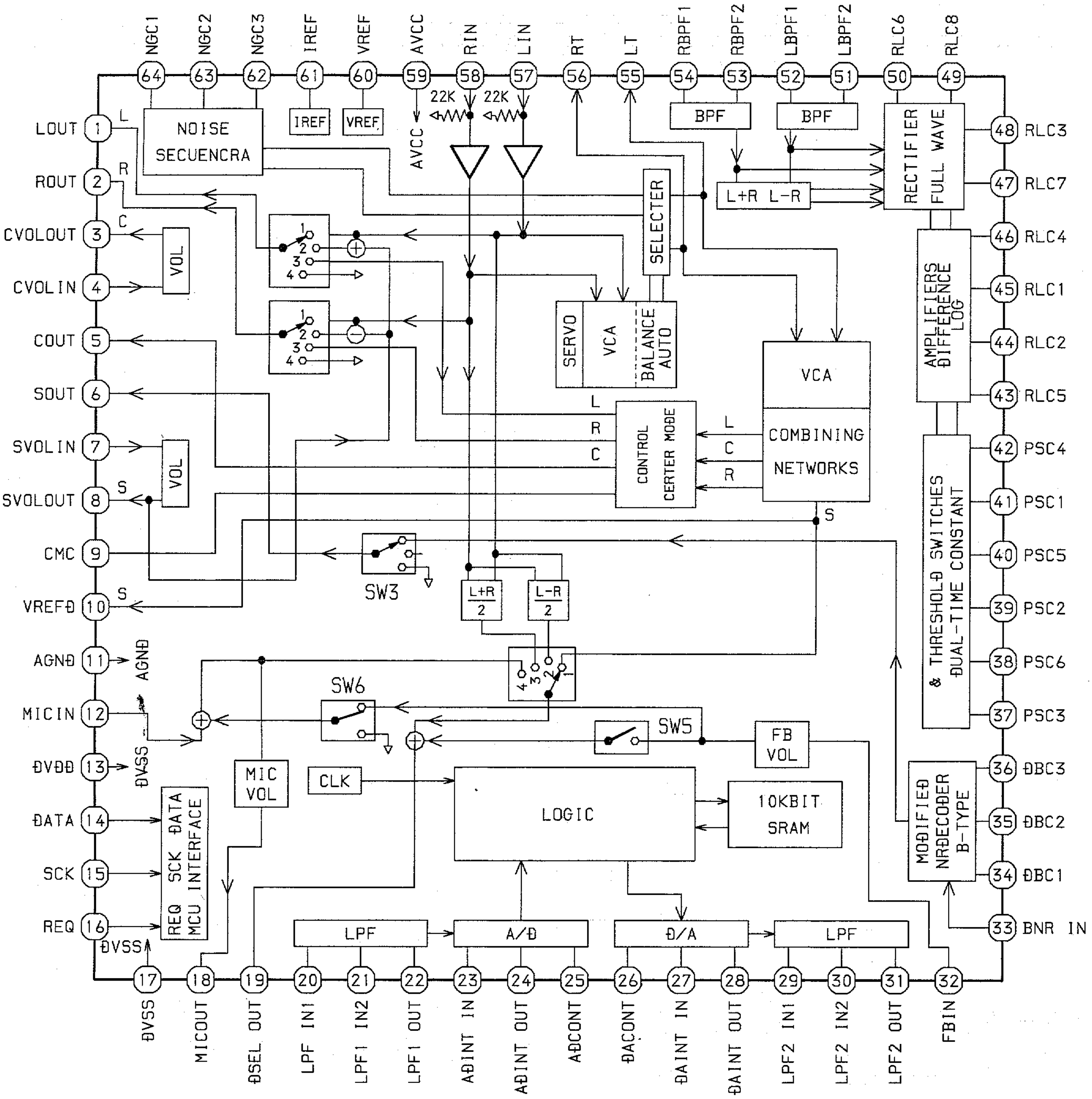
IC, NJM2152M


20
19
18
17
16
15
14
13
12
11
BOOST
LEVEL
CONTROL
1
2
3
4
5
6
7
8
9
10

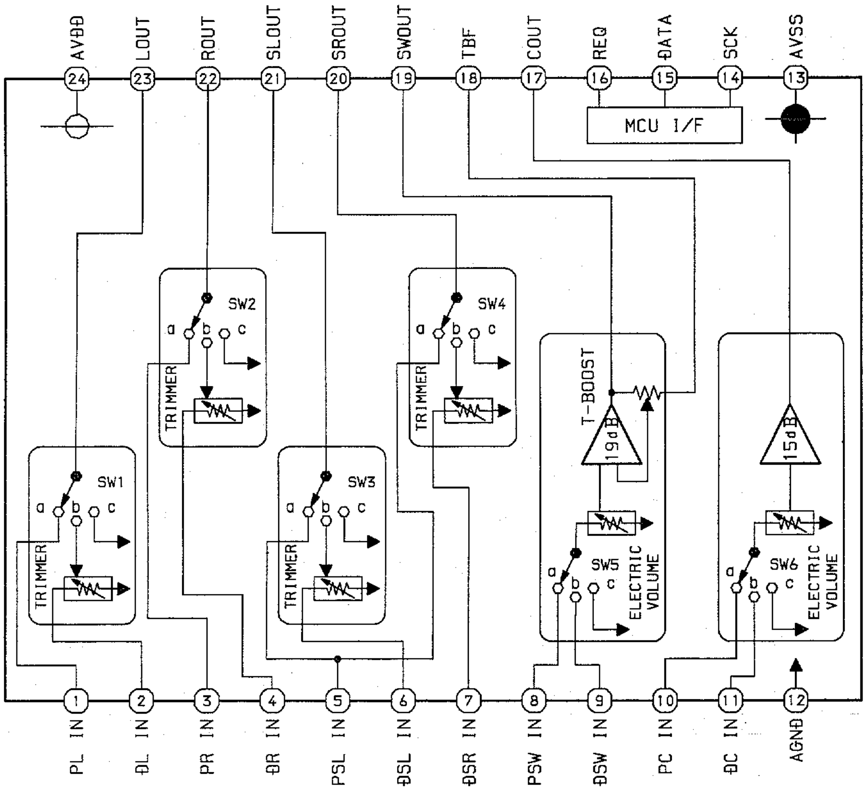
IC, M62445AFP


CLK
DATA
LATCH
CD-ON
TU-ON
DGND
DOLBY/Q.SUR
BIAS
ALC
AVSS
PB SEL
REC SEL
BBE2
BBE1
S-MUTE
SURROUND
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
LOGIC
INTERFACE
L-ALC
33
ALC
16
R-ALC
L-OUT2
34
B
SW10
A
6dB
SW11
B
A
6dB
15
R-OUT2
T-BASS
FILTER
35
36
37
T-BASS
FILTER
T-BASS
FILTER
14
13
12
T-BASS
FILTER
MIC
MIX
SW
OPAMP
6dB
b
a
SW8
SW
OPAMP
6dB
a
b
SW9
GEQ
FILTER
38
39
40
41
BASS/TREBLE
BASS/TREBLE
11
10
9
8
GEQ
FILTER
A-GND
42
10dB
0dB
~
10dB
VOCAL
CUT
10dB
7
R-IN
L-IN
43
6
NC
3K
3K
5
NC
REC IN (L)
44
SW2
SW4
4
REC IN (R)
SEL OUT (L)
45
3
SEL-OUT (R)
REC OUT (L)
46
SW6
SW1
SW5
SW3
SW7
2
REC-OUT (R)
K-CON IN
47
K-CON OUT
48
E
D
C
B
A
A
B
C
D
E
1
MIC IN
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
GND
TAPE
TUNER
AUX
MD
CD
A-GND
VOCAL
FADER
FILTER
AVDD
CD
AUX
PHONO
TUNER
TAPE
DVDD

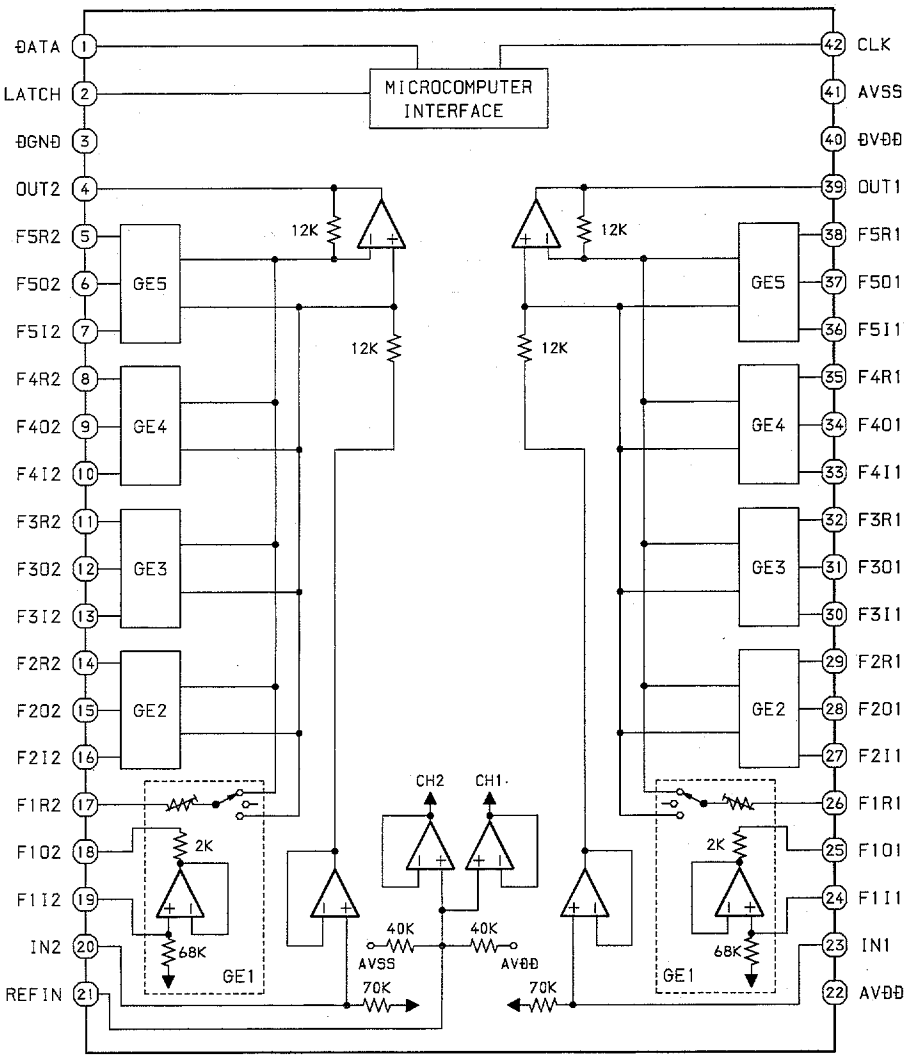
IC, M62463AFP


NGC1
NGC2
NGC3
IREF
VREF
AVCC
RIN
LIN
RT
LT
RBPF1
RBPF2
LBPF1
LBPF2
RLC6
RLC8
64
63
62
61
60
59
58
57
56
55
54
53
52
51
50
49
22K
22K
NOISE
SECUENCRA
IREF
VREF
AVCC
BPF
BPF
RECTIFIER
FULL WAVE
L+R L-R
SELECTER
SERVO
VCA
BALANCE
AUTO
VCA
COMBINING
NETWORKS
CONTROL
CENTER MODE
AMPLIFIERS
DIFFERENCE
LOG
& THRESHOLD SWITCHES
DUAL-TIME CONSTANT
MODIFIED
NRDECODER
B-TYPE
LOUT 1
ROUT 2
CVOLOUT 3
CVOLIN 4
COUT 5
SOUT 6
SVOLIN 7
SVOLOUT 8
CMC 9
VREFD 10
AGND 11
MICIN 12
DVDD 13
DATA 14
SCK 15
REQ 16
L
R
C
S
S
VOL
VOL
AGND
DVSS
REQ SCK DATA
MCU INTERFACE
SW3
L+R
2
L-R
2
SW6
SW5
FB
VOL
MIC
VOL
CLK
LOGIC
10KBIT
SRAM
LPF
A/D
D/A
LPF
DVSS
48 RLC3
47 RLC7
46 RLC4
45 RLC1
44 RLC2
43 RLC5
42 PSC4
41 PSC1
40 PSC5
39 PSC2
38 PSC6
37 PSC3
36 DBC3
35 DBC2
34 DBC1
33 BNR IN
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
DVSS
MICOUT
DSEL OUT
LPF IN1
LPF1 IN2
LPF1 OUT
ADINT IN
ADINT OUT
ADCONT
DACONT
DAINT IN
DAINT OUT
LPF2 IN1
LPF2 IN2
LPF2 OUT
FBIN

IC, M62491FP


AVÐÐ
LOUT
ROUT
SLOUT
SROUT
SWOUT
TBF
COUT
REQ
ÐATA
SCK
AVSS
24
23
22
21
20
19
18
17
16
15
14
13
MCU I/F
SW1
SW2
SW3
SW4
SW5
SW6
a
b
c
TRIMMER
T-BOOST
19dB
15dB
ELECTRIC VOLUME
1
2
3
4
5
6
7
8
9
10
11
12
PL IN
ÐL IN
PR IN
ÐR IN
PSL IN
ÐSL IN
ÐSR IN
PSW IN
ÐSW IN
PC IN
ÐC IN
AGNÐ

IC, M62449FP


ÐATA
LATCH
ÐGNÐ
OUT2
F5R2
F5O2
F5I2
F4R2
F4O2
F4I2
F3R2
F3O2
F3I2
F2R2
F2O2
F2I2
F1R2
F1O2
F1I2
IN2
REFIN
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
CLK
AVSS
ÐVÐÐ
OUT1
F5R1
F5O1
F5I1
F4R1
F4O1
F4I1
F3R1
F3O1
F3I1
F2R1
F2O1
F2I1
F1R1
F1O1
F1I1
IN1
AVÐÐ
42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
MICROCOMPUTER INTERFACE
GE5
GE4
GE3
GE2
GE1
12K
2K
68K
CH2
CH1
40K
AVSS
AVÐÐ
70K

IC DESCRIPTION (MX-NH1100 / NAVH1200)

IC, UPD780228GF-034-3BA

Pin No.	Pin Name	I/O	Description
1	K-SCAN	O	Output scan for segment input (Active "H").
2	RHYTHM-CS	O	Chip select output to IC, BU9990-03.
3	RHYTHM-SCLK	O	Clock output to IC, BU9990-03.
4	RHYTHM-SD	O	Data output to IC, BU9990-03.
5	PLL CE	O	PLL IC chip enable output.
6	O-M/CLK	O	Main clock output.
7	O-M/DATA	O	Main data output.
8	O-M/STB	O	Main strobe output.
9	I/O-SERIAL	I/O	Communication port for GEQ, CD and DECK.
10	O-MUTE	O	System mute (ON when "H").
11	O-$\overline{\text{POWER}}$	O	System power supply (ON when "L").
12	DIMER 2	O	Dimmer control ("L" when 2).
13	O-MUTE S	O	Sound L, R, Center, SW Mute.
14	LED-ECO	O	ECO LED output.
15	NC	–	Not connected.
16	NC	–	Not connected.
17	IC	–	Connect to GND.
18	VSS	–	GND.
19	VDD	–	Power supply terminal.
20	LED-MD	O	MD LED output.
21	TM BASE	I	Time base input.
22	TUNE/$\overline{\text{IFO}}$	I	Tuning detection input.
23	$\overline{\text{STEREO}}$	I	Stereo detection input.
24	NC	–	Not connected.
25	I-RE VOL A	I	Rotary Encoder Input A / B.
26	I-RE VOL B		
27	LED CD	O	CD LED output.
28	NC	–	Not connected.
29	I-RDS-CLK	I	RDS clock input.
30	$\overline{\text{RESET}}$	I	Reset input.
31	I-RDS-DATA	I	RDS data input.
32	GEQ-REQ	O	Latch output to IC, M62449FP.
33	COUNTER	I	Tape counter input.
34	I-$\overline{\text{RMC}}$	I	Remote controller input (Active "L").
35	I-$\overline{\text{SURR-OFF}}$	I	Stop surround function when using head phone.
36	O-SHIFT	O	Output for oscillated frequency shift.
37	VDD	–	Power supply terminal.
38	X2	–	4.19MHz oscillator circuit.
39	X1		
40	VSS	–	GND
41	AVDD	–	Power supply terminal.
42	$\overline{\text{HOLD}}$	I	Power failure / over current detected input.

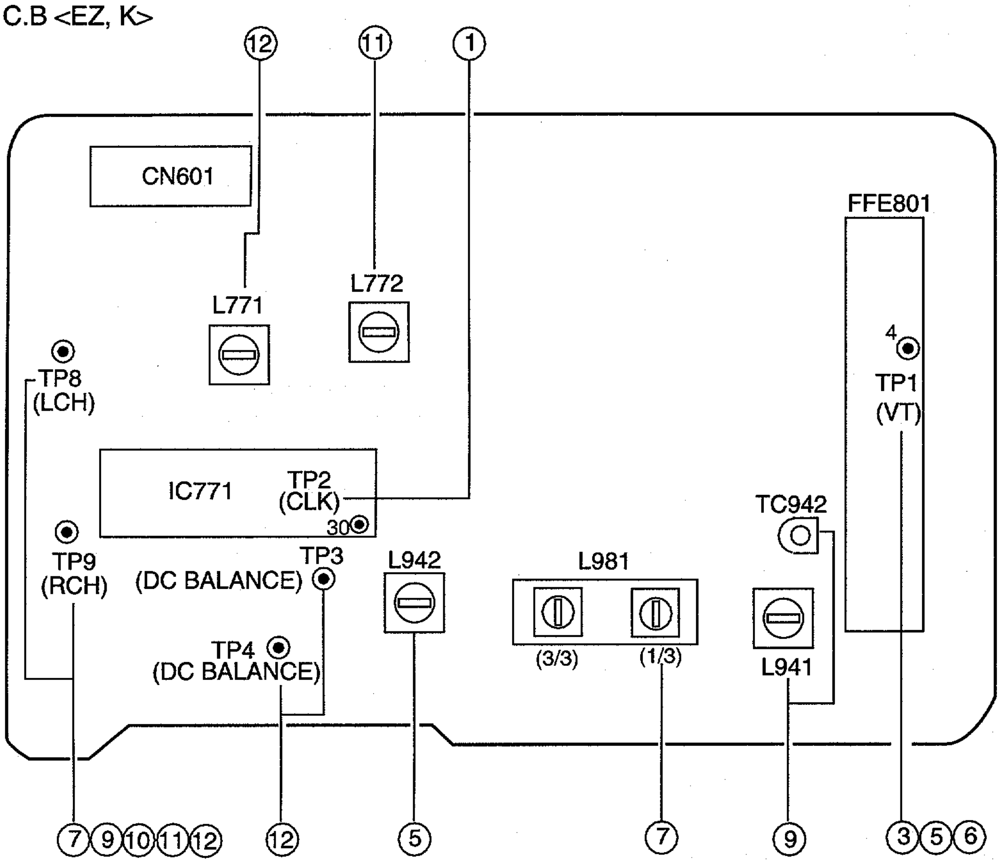
Pin No.	Pin Name	I/O	Description
43	I-RDS SIG	I	RDS signal input.
44	I-MIC	I	MIC input level detection.
45	I-KEY1	I	KEY1 input.
46	I-KEY2	I	KEY2 input.
47	TEMPO	I	TEMPO input (100Hz, 3.3kHz).
48	GE-2	I	DEMO, TIMER, CLOCK, SPICE A, AUTO SPICE / FILL IN input.
49	GE-1	I	JOG, SPICE B SW input.
50	AVSS	–	GND.
51	LED-TAPE	O	Tape LED output.
52	LED-TUNER	O	Tuner LED output.
53	LED-VIDEO	O	Video LED output.
54~58	P1~P5	O	FL segment output.
59	P6	I/O	FL segment output.
60	P7 / SEL2	I/O	FL segment output / SEL2 input <HR only>.
61	P8 / SEL1	I/O	FL segment output / SEL1 input <EZ,K only>.
62	P9 / PRO	I/O	FL segment output / PROLOGIC input.
63	P10 / w/o DEMO	I/O	FL segment output / Without DEMO input.
64	P11/V-CD	I/O	FL segment output / V-CD input.
65~78	P12~P25	O	FL segment output.
79	VDD	–	Power supply terminal.
80	-VFL	–	Power FL display negative supply terminal.
81~90	P26~P35	O	FL segment output.
91~100	G10~G1	O	FL grid output.

IC, M65849BFP631D

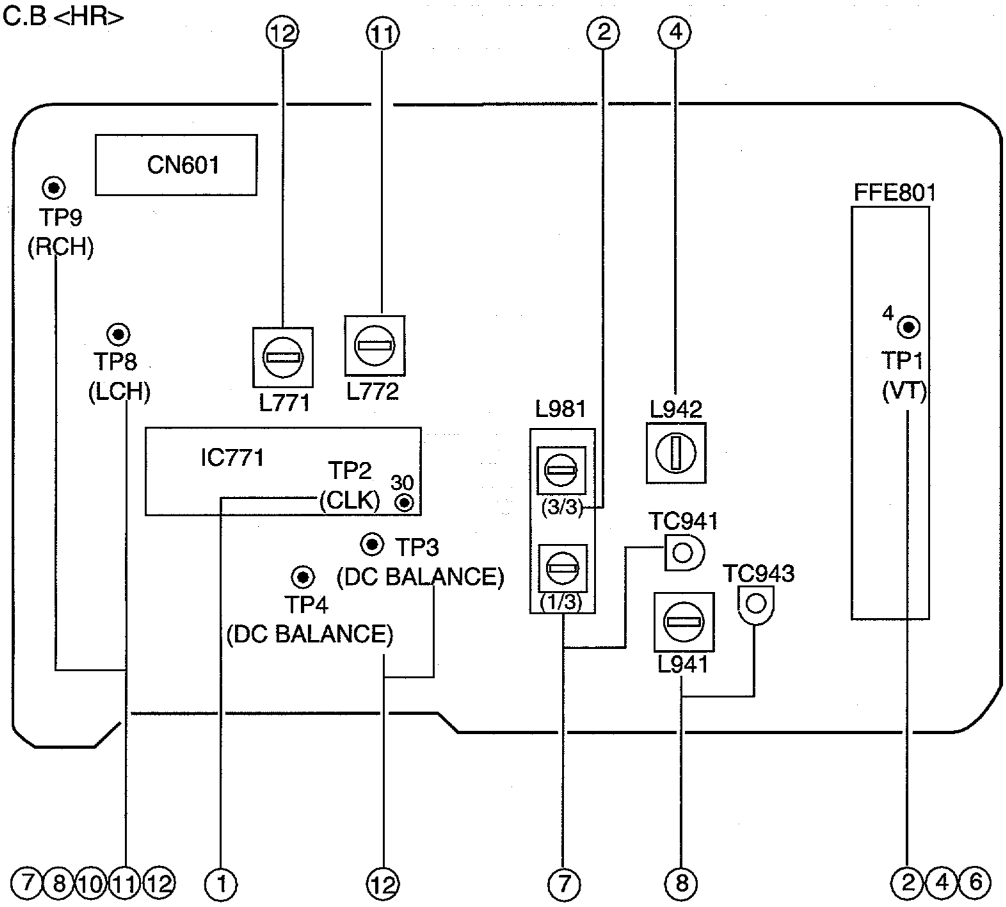
Pin No.	Pin Name	I/O	Description
1	MCLKONT	I	Controls buils-in clock generation circuit with external R.
2	TEST1	I	Test mode change "H" Normal / "L" Test.
3	CLOCK	I	Clock input via serial bus.
4.	STB	I	Strobe input via serial bus.
5	DATA	I	Data input via serial bus.
6	CKO	O	Clock output.
7	CKI	I	Clock input.
8	Vcc	–	Power supply.
9	DELAY SOURCE OUT	O	(L+R) or (L-R) or MIC signal output.
10	TEST OUT	O	Memory / Mute / Sampling data output (Test mode) (Not connected).
11	LPF1 IN 1	I	Low Pass Filter 1 input 1.
12	LPF1 IN 2	I	Low Pass Filter 1 input 2.
13	LPF1 OUT	O	Low Pass Filter 1 output.
14	AD INT IN	I	A/D integrator input.
15	AD INT OUT	I	A/D integrator output.
16	GND	–	GND.
17	DAINT IN	I	D/A integrator input.
18	DAINT OUT	O	D/A integrator output.
19	LPF2 IN 1	I	Low Pass Filter 2 input 1.
20	LPF2 IN 2	I	Low Pass Filter 2 input 2.
21	LPF2 OUT	O	Low Pass Filter 2 output.
22	FVOL IN	I	Feedback volume input.
23	MIC OUT	O	Microphone output.
24	REF	–	Reference.
25	Rch OUT	O	Rch mixing output.
26	Lch OUT	O	Lch mixing output.
27	DELAY OUT	O	Delay signal output.
28	Rch IN	I	Rch mixing input.
29	Lch IN	I	Lch mixing input.
30	VDD	–	VDD.
31	MIC IN	I	Microphone input.
32	MVOL IN	I	Mix volume input.

ADJUSTMENT <TUNER> (MX-NH1100 / NAVH1200)

C TUNER C.B <EZ, K>


⑫
⑪
①
CN601
FFE801
L771
L772
4
TP1
(VT)
TP8
(LCH)
IC771
TP2
(CLK)
30
TC942
TP9
(RCH)
TP3
(DC BALANCE)
L942
L981
TP4
(DC BALANCE)
(3/3)
(1/3)
L941
⑦⑨⑩⑪⑫
⑫
⑤
⑦
⑨
③⑤⑥

C TUNER C.B <HR>


⑫
⑪
②
④
CN601
TP9
(RCH)
FFE801
TP8
(LCH)
L771
L772
4
TP1
(VT)
L981
L942
IC771
TP2
(CLK)
30
(3/3)
TC941
TP3
(DC BALANCE)
TP4
(DC BALANCE)
(1/3)
TC943
L941
⑦⑧⑩⑪⑫
①
⑫
⑦
⑧
②④⑥

< TUNER SECTION >

1. Clock frequency Check
Settings : • Test point : TP2
Method : Set to AM 1602kHz and check that the test point is 2052kHz ± 45Hz.

2. MW VT Adjustment <HR>
Settings : • Test point : TP1 (VT)
• Adjustment location : L981 (3/3)
Method : Set to MW 1710kHz and adjust L981 (3/3) so that the test point becomes 7.5V ± 0.05V. Then check that the test point is more than 0.3V (530kHz).

3. MW VT Check <EZ,K>
Settings : • Test point : TP1 (VT)
Method : Set to MW 1602kHz and check that the test point is less than 8.0V and more than 0.6V (531kHz).

4. SW VT Adjustment <HR>
Settings : • Test point : TP1 (VT)
• Adjustment location : L942
Method : Set to SW 17.9MHz and adjust L942 so that the test point becomes 6.0V ± 0.05V. Then check that the test point is more than 0.3V (5.9MHz).

5. LW VT Adjustment <EZ,K>
Settings : • Test point : TP1 (VT)
• Adjustment location : L942
Method : Set to LW 144kHz and adjust L942 so that the test point is 1.3V ± 0.05V. Then check that the test point is less then 8.0V (290kHz).

6. FM VT Check
Settings : • Test point : TP1 (VT)
Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 0.5V (87.5MHz) and less than 8.0V (108.0MHz).

7a. MW Tracking Adjustment <HR>
Settings : • Test point : TP8(Lch), TP9(Rch)
• Adjustment location :
L981 (1/3) 603kHz
TC941 .... 1404kHz
Method : Set up TC941 to center before adjustment, the level at 603kHz is adjusted to maximum by L981 (1/3). Then the level at 1404kHz is adjusted to maximum by TC941.

7b. MW Tracking Adjustment <EZ,K>
Settings : • Test point : TP8(Lch), TP8(Rch)
• Adjustment location :
L981(1/3) 999kHz
Method : Set to AM 999kHz and adjust L981(1/3)to MAX.

8. SW Tracking Adjustment <HR>
Settings : • Test point : TP8(Lch), TP9(Rch)
• Adjustment location :
L941 .... 5.9MHz
TC943 .... 17.9MHz
Method : Set up TC943 to center before adjustment. The level at 5.9MHz is adjusted to maximum by L941. Then the level at 17.9MHz is adjusted to maximum by TC943.

9. LW Tracking Adjustment <EZ,K>
Settings : • Test point : TP8(Lch), TP9(Rch)
• Adjustment location :
L941 ....144kHz
TC942 .... 290kHz
Method : Set up TC942 to center before adjustment. The level at 144kHz is adjusted to maximum by L941. Then the level at 290kHz is adjusted to maximum by TC942.

10. FM Tracking Check
Settings : • Test point : TP8(Lch), TP9(Rch)
Method : Set to FM 98.0MHz and check that the test point is less than 9dB (HR), less than 13dB (EZ,K).

11. AM(MW) IF Adjustment
Settings : • Test point : TP8(Lch), TP9(Rch)
• Adjustment location :
L772 .... 450kHz

12. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4 (DC Balance)
: TP8(Lch), TP9(Rch) (Distortion)
• Adjustment location : L771
• Input level : 54dB
Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V. Next, check that the distortion is less than 1.3%.

PRACTICAL SERVICE FIGURE (MX-NH1100 / NAVH1200)

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : HR: Less than 10 / 9 / 9dB
(THD 3%) EZ,K: Less than 14 / 13 / 13dB
[at 87.5 / 98.0 / 108.0MHz]
S/N 50dB Quieting sensitivity :
HR: Less than 35dB
EZ,K: Less than 38dB
[at 98.0MHz]
Signal to noise ratio : Mono : More than 72dB
Stereo :
HR: More than 66dB
EZ,K: More than 64dB
[at 98.0MHz]
Distortion : Mono : Less than 1.2%
Stereo : Less than 2.0% [at 98.0MHz]
Stereo separation : HR : More than 12dB [at 98.0MHz]
EZ,K : More than 30dB [at 98.0MHz]
Intermediate frequency : 10.7MHz

<MW SECTION>

Sensitivity : Less than 62dB [at 603kHz]
Less than 58dB [at 999kHz]
Less than 58dB [at 1404kHz]
Signal to noise ratio : More than 36dB [at 999kHz]
Distortion : Less than 1.5% [at 999kHz]
Intermediate frequency : 450kHz

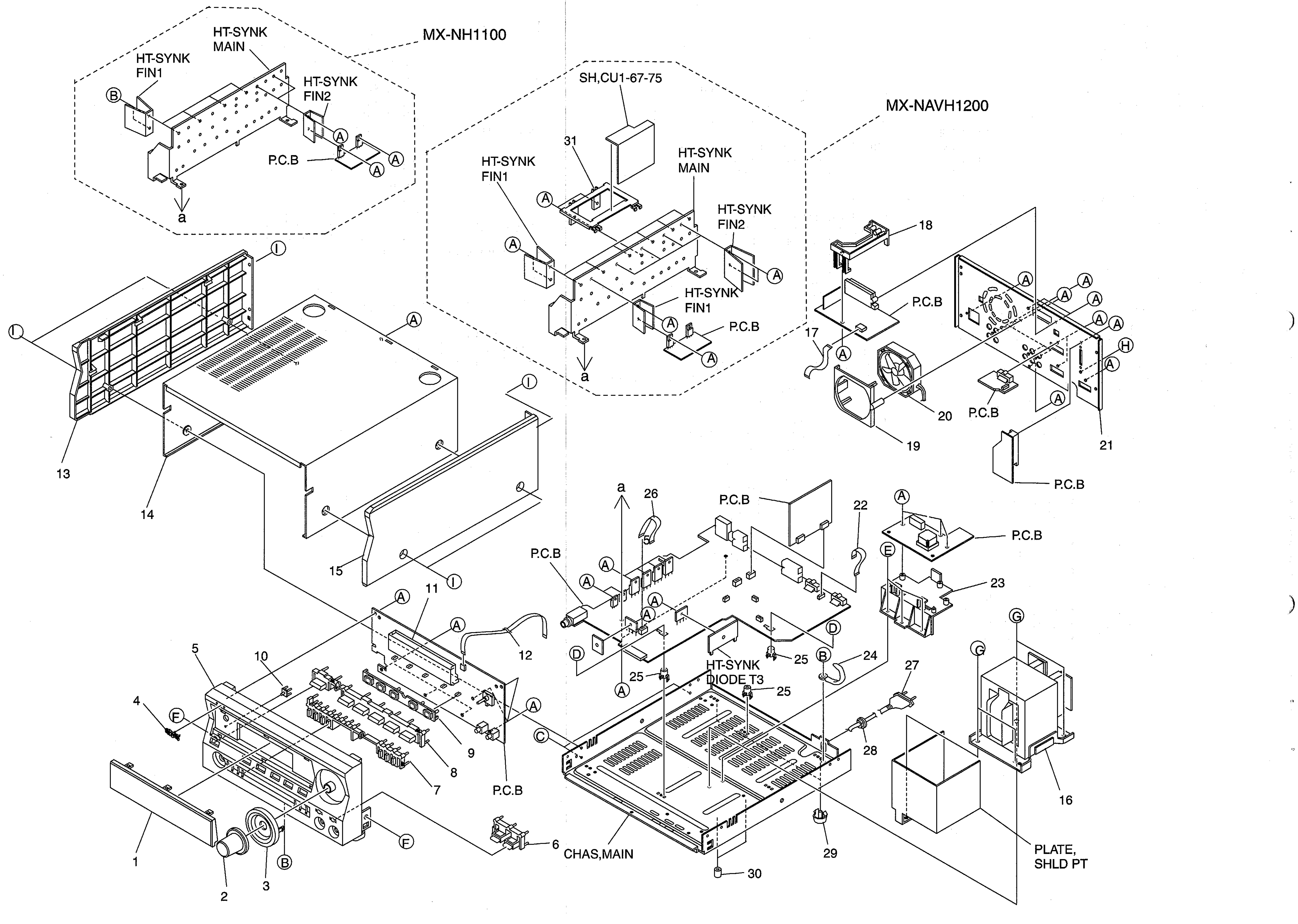
<LW SECTION> (EZ,K)

Sensitivity : Less than 70dB [at 144kHz]
Less than 68dB at 198kHz]
Less than 66dB [at 290kHz]
Intermediate frequency : 450kHz

<SW SECTION> (HR)

Sensitivity : Less than 51dB [at 5.9MHz]
Less than 45dB [at 12.0 MHz]
Less than 44dB [at 17.9MHz]
Overload Signal Distortion :
Less than 10% [at 12.0MHz]
Intermediate frequency : 450kHz

MECHANICAL EXPLODED VIEW 1 / 1 (MX-NH1100 / NAVH1200)


MX-NH1100
HT-SYNK MAIN
HT-SYNK FIN1
HT-SYNK FIN2
B
A
P.C.B
A
A
a
SH,CU1-67-75
MX-NAVH1200
31
HT-SYNK FIN1
HT-SYNK MAIN
A
HT-SYNK FIN2
A
A
HT-SYNK FIN1
A
P.C.B
A
a
18
P.C.B
17
A
A
A
A
A
A
A
H
A
20
P.C.B
A
19
21
P.C.B
I
I
A
I
13
14
15
I
a
26
P.C.B
22
A
P.C.B
P.C.B
E
23
A
A
A
A
D
D
11
A
A
12
25
HT-SYNK DIODE T3
25
25
B
24
27
5
10
A
4
F
C
G
G
A
9
8
28
7
P.C.B
16
F
1
2
3
B
6
CHAS,MAIN
29
30
PLATE, SHLD PT

MECHANICAL PARTS LIST 1 / 1 (MX-NH1100 / NAVH1200)

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-SPM-002-010		WINDOW,DISPLAY<1200HR>
1	8Z-SP1-004-010		WINDOW,DISPLAY<1100HR>
1	8Z-SP1-028-010		WINDOW,DISPLAY EZ<1100K,1100EZ>
1	8Z-SPM-009-010		WINDOW,DISPLAY EZ<1200K,1200EZ>
2	8Z-SP1-011-010		KNOB,RTRY VOL
3	8Z-SP1-012-010		RING,VOL
4	87-B00-002-010		BADGE,AIWA 30 ABS SIL
5	8Z-SP1-001-010		CABI,FR<1100HR>
5	8Z-SPM-001-010		CABI,FR EZ<1200K,1200EZ>
5	8Z-SP1-021-010		CABI,FR EZ<1100K,1100EZ>
5	8Z-SPM-005-010		CABI,FR HR<1200HR>
6	8Z-SP1-007-010		KEY,BBE
7	8Z-SP1-008-010		KEY,KARAOKE<HR>
7	8Z-SP1-016-110		KEY,RDS<K,EZ>
8	8Z-SP1-010-010		KEY,ASSY FUN
9	8Z-SP1-202-010		GUIDE,LED FUN
10	8Z-SP1-015-010		REFLECTOR,ECO
11	88-SX1-203-210		GUIDE,FL
12	88-908-281-110		FF-CABLE, 8P 1.25 280MM<1100>
12	88-906-301-110		FF-CABLE,6P-1.25<1200>
13	8Z-SP1-017-010		PANEL,SIDE L
14	8Z-SP1-002-010		CABI,STEEL
15	8Z-SP1-018-010		PANEL,SIDE R
⚠ 16	88-SPM-604-010		PT,EZ<1200K,1200EZ>
⚠ 16	88-SPM-602-010		PT,HE<1200HR>
⚠ 16	88-SP1-604-010		PT,EZ<1100EZ>
⚠ 16	88-SP1-602-010		PT,HE<1100HR>
⚠ 16	88-SP1-606-010		PT,K<1100K>
17	88-911-121-110		FF-CABLE,11P 1.25
18	88-AR1-203-010		HLDR,TU
19	8Z-SP1-207-010		COVER, FAN
20	87-A91-232-010		FAN,F614R-12MC-22-350MM
21	8Z-SPM-003-010		PANEL,REAR EZ<1200EZ>
21	8Z-SP1-022-010		PANEL,REAR EZSNM<1100EZ>
21	8Z-SP1-003-010		PANEL,REAR HR<1100HR>
21	8Z-SPM-008-010		PANEL,REAR HR<1200HR>
21	8Z-SPM-006-110		PANEL,REAR K<1200K>
21	8Z-SP1-026-010		PANEL,REAR KSNM<1100K>
22	88-910-071-110		FF-CABLE, 10P 1.25 70MM
23	8Z-SP1-209-010		HLDR,PWB ECO
24	87-064-185-010		HLDR,WIRE
25	8Z-SP1-208-010		HLDR,PWB 13.5
26	8Z-SP1-627-010		F-CABLE,7P 2.5 280MM
⚠ 27	87-A80-143-010		AC-CORD ASSY,E<1200K>
⚠ 27	87-050-079-010		AC-CORD ASSY,E<EXCEPT 1200K>
28	87-085-185-010		BUSHING, AC CORD (E)
29	87-085-213-010		FOOT,H12.5
30	8Z-NB8-240-010		COVER, PL
31	88-SPM-208-010		HLDR,PWB PRO<1200>
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-067-688-010		BVTT+3-6
C	87-721-095-410		QT2+3-8GLD W/O SLOT
D	87-B10-190-010		BVT2+3-22 W/O SLOT
E	87-067-579-010		BVT2+3-8 W/O SLOT
F	87-591-094-410		TAPPING SCREW, QIT+3-6
G	87-078-019-010		S-SCREW,IT+4-6
H	81-653-215-010		SPECIAL SCREW, VT2.6-8<HR>
I	87-067-641-010		UTT2+3-8(W/O SLOT)BL

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

MODEL NO.

DX-NH1100

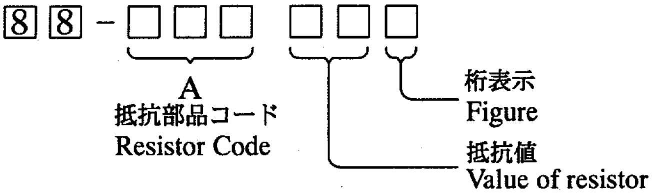
ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

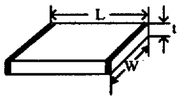
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	8Z-SX1-607-010		C-IC,UPD78046HGF-024-3B9
TRANSISTOR			
	87-026-263-080		C-TR,RN1410
	87-A30-076-080		C-TR,2SC3052F
DIODE			
	87-020-465-080		DIODE,1SS133 (110MA)
	87-070-136-080		ZENER,MTZJ5.1B
MAIN C.B			
C301	87-010-322-080		C-CAP,S 100P-50 CH
C304	87-010-196-080		CHIP CAPACITOR,0.1-25
C305	87-010-197-080		CAP, CHIP 0.01 DM
C310	87-016-462-080		C-CAP,S 1-16 F
C311	87-016-462-080		C-CAP,S 1-16 F
C312	87-016-462-080		C-CAP,S 1-16 F
C313	87-010-184-080		CHIP CAPACITOR 3300P(K)
C314	87-010-402-040		CAP,E 2.2-50 SME
CN301	87-009-241-010		CONNECTOR, 11P
CN302	87-099-194-010		CONN,6P 6216V
CN303	87-099-015-010		CONN,13P 6216V
CN304	87-099-667-010		CONN,8P TUC-P8P-B1
CN305	87-099-570-010		CONN,13P TUC-P13P-B1
FB301	87-008-372-080		FILTER, EMI BL OIRNI
FB302	87-008-372-080		FILTER, EMI BL OIRNI
FB303	87-008-372-080		FILTER, EMI BL OIRNI
FB304	87-008-372-080		FILTER, EMI BL OIRNI
FB305	87-008-372-080		FILTER, EMI BL OIRNI
FB306	87-008-372-080		FILTER, EMI BL OIRNI
FB307	87-008-372-080		FILTER, EMI BL OIRNI
L301	87-005-152-080		COIL,10UH
L302	87-005-165-080		COIL 1UH (H,E)
W301	88-SX1-610-010		CORD,FG 11P
W302	88-906-481-110		FF-CABLE,6P 1.25 480MM
W303	88-913-121-110		FF-CABLE,P1.25
FRONT C.B			
C1	87-010-264-040		CAP,E 100-10 5L
C2	87-010-072-040		CAP,E 2.2-50 5L
C4	87-010-246-040		CAP,E 47-35 SME
C5	87-010-190-080		S CHIP F 0.01
C6	87-010-196-080		CHIP CAPACITOR,0.1-25
C7	87-010-197-080		CAP, CHIP 0.01 DM
C8	87-010-314-080		C-CAP,S 22P-50V
C9	87-010-316-080		C-CAP,S 33P-50 CH
C10	87-010-315-080		C-CAP,S 27P-50 CH
C11	87-010-196-080		CHIP CAPACITOR,0.1-25
C12	87-010-197-080		CAP, CHIP 0.01 DM
C14	87-010-405-040		CAP,E 10-50
C15	87-010-405-040		CAP,E 10-50
C201	87-018-134-080		CAPACITOR,TC-U 0.01-16
C202	87-010-197-080		CAP, CHIP 0.01 DM
C203	87-010-197-080		CAP, CHIP 0.01 DM
C204	87-018-134-080		CAPACITOR,TC-U 0.01-16
C251	87-010-178-080		CHIP CAP 1000P
C252	87-010-178-080		CHIP CAP 1000P
C253	87-010-178-080		CHIP CAP 1000P
C254	87-010-178-080		CHIP CAP 1000P
C255	87-010-178-080		CHIP CAP 1000P
C256	87-010-178-080		CHIP CAP 1000P
CN1	87-099-669-010		CONN,8P TUC-P8X-B1
CN2	87-099-559-010		CONN,13P TUC-P13X-B1
FL201	8Z-SX1-608-010		FL,6-BT-303GNK
L1	87-005-152-080		COIL,10UH
L2	87-005-152-080		COIL,10UH
L3	87-005-152-080		COIL,10UH
L5	87-005-152-080		COIL,10UH
LED203	87-A40-263-080		LED,SLH-56PCT31 GRN
LED204	87-A40-263-080		LED,SLH-56PCT31 GRN
LED205	87-A40-317-080		LED,SLR-342VCT31 RED
LED206	87-A40-317-080		LED,SLR-342VCT31 RED
LED207	87-A40-317-080		LED,SLR-342VCT31 RED
S201	87-A90-095-080		SW,TACT EVQ11G04M
S202	87-A90-095-080		SW,TACT EVQ11G04M
S203	87-A90-095-080		SW,TACT EVQ11G04M
S204	87-A90-095-080		SW,TACT EVQ11G04M
S205	87-A90-095-080		SW,TACT EVQ11G04M
S206	87-A90-095-080		SW,TACT EVQ11G04M
S207	87-A90-095-080		SW,TACT EVQ11G04M
S208	87-A90-095-080		SW,TACT EVQ11G04M
X1	87-A70-075-080		VIB,CER 4.19MHZ CRHF
KEY C.B			
S101	87-A90-095-080		SW,TACT EVQ11G04M
S102	87-A90-095-080		SW,TACT EVQ11G04M

Oチップ抵抗部品コード／CHIP RESISTOR PART CODE

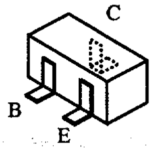
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding


8
8
A
抵抗部品コード
Resistor Code
桁表示
Figure
抵抗値
Value of resistor

チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	±5%	CJ		1.0	0.5	0.35	104
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

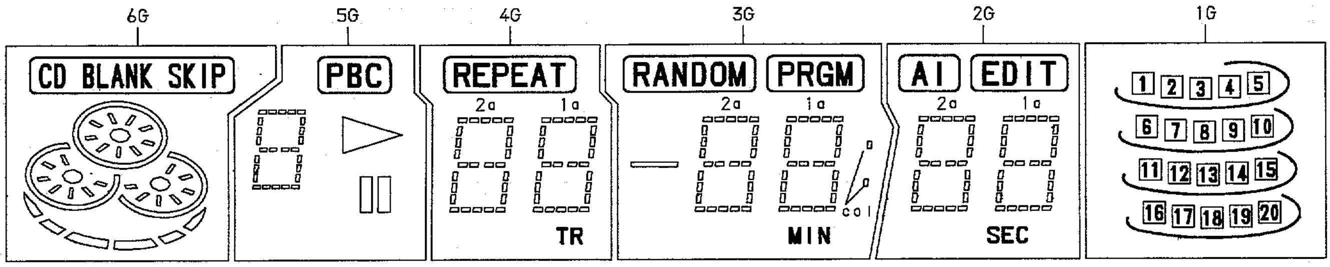
TRANSISTOR ILLUSTRATION (DX-NH1100)

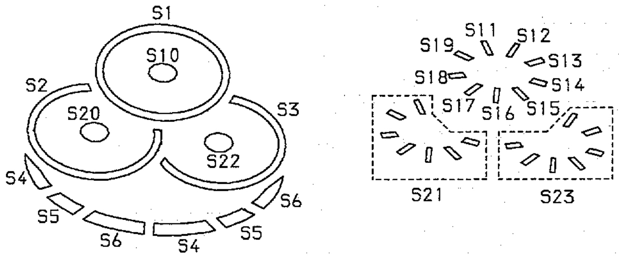


2SC3052
RN1410

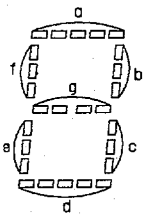
FL (6-BT-303GNK) GRID ASSIGNMENT & ANODE CONNECTION (DX-NH1100)

GRID ASSIGNMENT & ANODE CONNECTION (DX-NH1100)

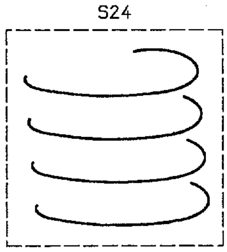

6G
5G
4G
3G
2G
1G
CD BLANK SKIP
PBC
REPEAT
2a
1a
TR
RANDOM
PRGM
2a
1a
col
MIN
AI
EDIT
2a
1a
SEC
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20


S1
S10
S2
S20
S3
S22
S4
S6
S5
S6
S4
S5
S19
S11
S12
S13
S18
S14
S17
S16
S15
S21
S23

[6G]



[5G~2G]

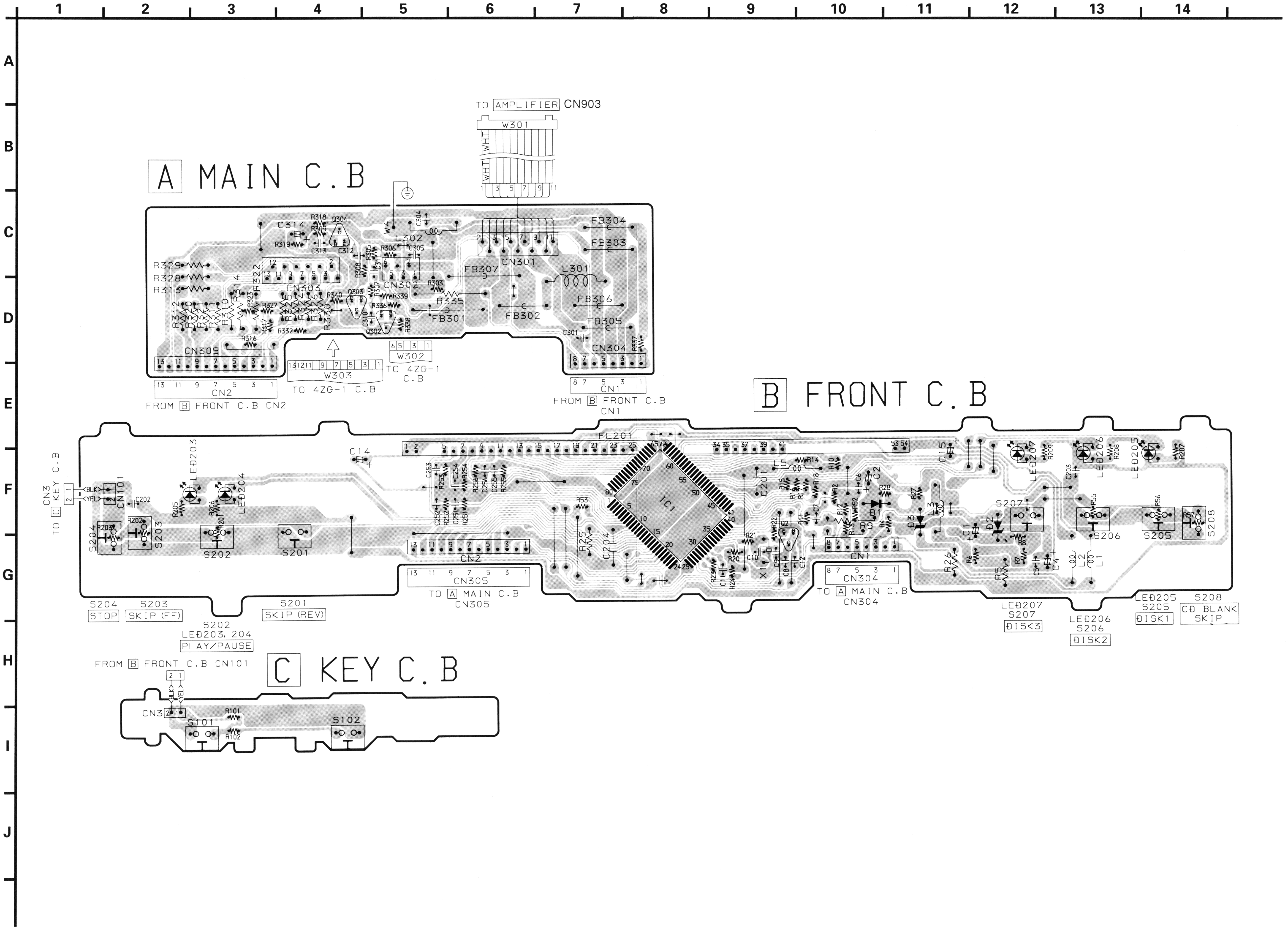


[1G]

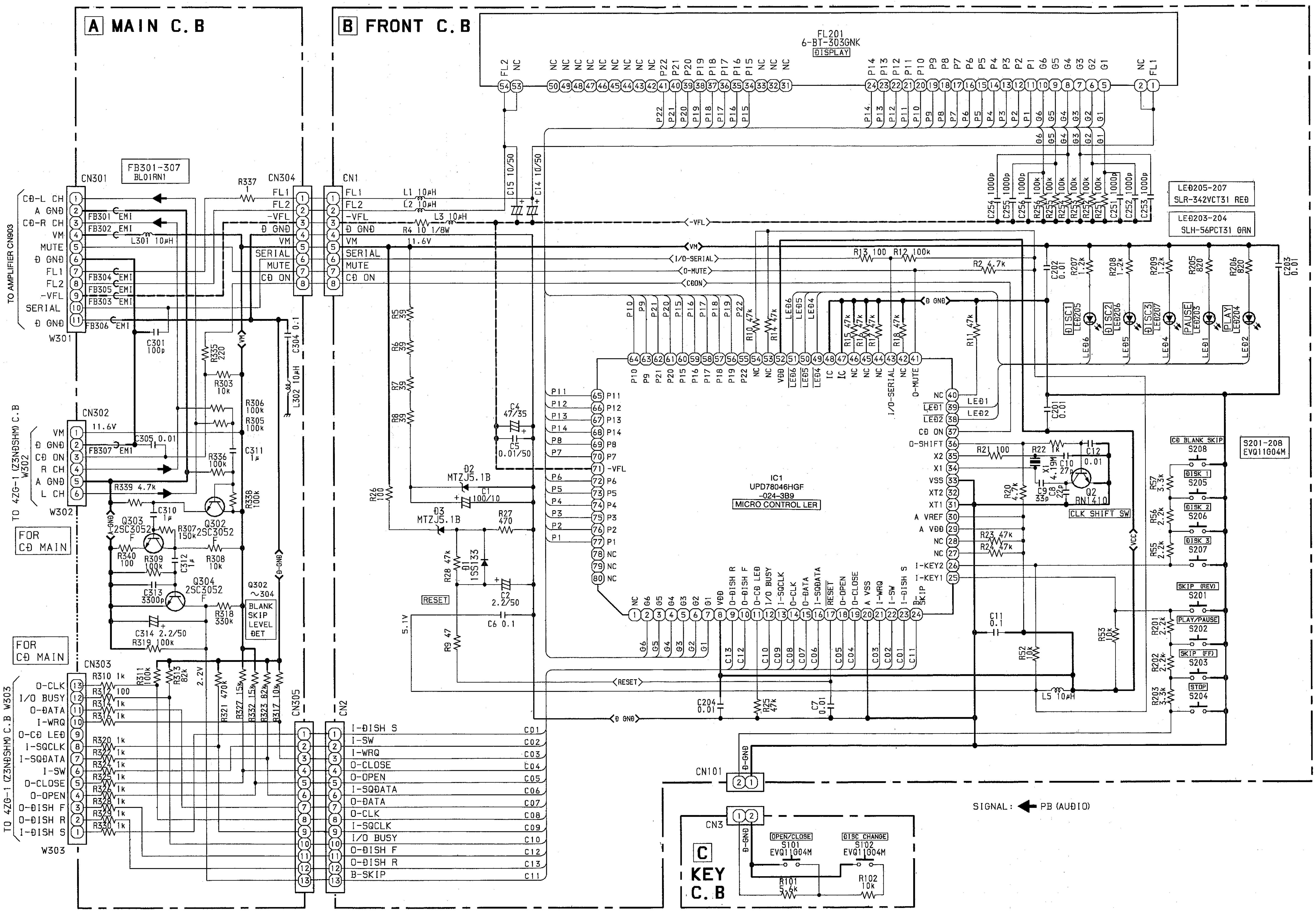
ANODE CONNECTION

	6G	5G	4G	3G	2G	1G
P1	S10	a	1a	1a	1a	1
P2	S12	b	1b	1b	1b	2
P3	S11	f	1f	1f	1f	3
P4	S13	g	1g	1g	1g	4
P5	S19	c	1c	1c	1c	5
P6	S14	e	1e	1e	1e	6
P7	S18	d	1d	1d	1d	7
P8	S15	–	–	▭	—	8
P9	S17	▷	2a	2a	2a	9
P10	S16	▯▯	2b	2b	2b	10
P11	S1	–	2f	2f	2f	11
P12	S20	–	2g	2g	2g	12
P13	S21	–	2c	2c	2c	13
P14	S2	–	2e	2e	2e	14
P15	S22	–	2d	2d	2d	15
P16	S23	–	**TR**	**MIN**	**SEC**	16
P17	S3	**PBC**	**REPEAT**	col	**EDIT**	17
P18	S4	(PBC)	(REPEAT)	**PRGM**	(EDIT)	18
P19	S5	–	–	(PRGM)	**AI**	19
P20	S6	–	–	**RANDOM**	(AI)	20
P21	**CD BLANK SKIP**	–	–	(RANDOM)	–	S24
P22	(CD BLANK SKIP)	–	–	–	–	–

WIRING (MAIN / FRONT / KEY : DX-NH1100)


1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I J
A MAIN C.B
TO AMPLIFIER CN903
W301
WHT
CN301
CN302
CN303
CN305
CN304
W302
W303
TO 4ZG-1 C.B
FB301
FB302
FB303
FB304
FB305
FB306
FB307
L301
L302
Q302
Q303
Q304
C314
W4
13 11 9 7 5 3 1
CN2
FROM B FRONT C.B CN2
8 7 5 3 1
CN1
FROM B FRONT C.B CN1
B FRONT C.B
FL201
IC1
CN3 TO C KEY C.B
BLK
YEL
CN101
LED203
LED204
LED205
LED206
LED207
S201
S202
S203
S204
S205
S206
S207
S208
13 11 9 7 5 3 1
CN305
TO A MAIN C.B CN305
8 7 5 3 1
CN304
TO A MAIN C.B CN304
S204 STOP
S203 SKIP (FF)
S201 SKIP (REV)
S202 LED203, 204 PLAY/PAUSE
LED207 S207 DISK3
LED206 S206 DISK2
LED205 S205 DISK1
S208 CD BLANK SKIP
C KEY C.B
FROM B FRONT C.B CN101
CN3
S101
S102
R101
R102

SCHEMATIC DIAGRAM – 10 (MAIN / FRONT / KEY : DX-NH1100)



A MAIN C.B
B FRONT C.B
C KEY C.B
FL201
6-BT-303GNK
DISPLAY
CN301
W301
FB301-307
BL01RN1
TO AMPLIFIER CN903
CD-L CH
A GND
CD-R CH
VM
MUTE
D GND
FL1
FL2
-VFL
SERIAL
D GND
FB301 EMI
FB302 EMI
FB303 EMI
FB304 EMI
FB305 EMI
FB306 EMI
FB307 EMI
L301 10μH
C301 100p
R337 1
CN304
FL1
FL2
-VFL
D GND
VM
SERIAL
MUTE
CD ON
CN1
L1 10μH
L2 10μH
L3 10μH
R4 10 1/8W
11.6V
C304 0.1
L302 10μH
R335 220
R303 10k
R306 100k
R305 100k
R336 100k
C311 1μ
R338 100k
CN302
W302
TO 4ZG-1 (Z3NDSHM) C.B
11.6V
VM
D GND
CD ON
R CH
A GND
L CH
C305 0.01
R339 4.7k
C310 1μ
Q303 2SC3052
Q302 2SC3052
R307 150k
R340 100
R309 100k
C312 1μ
R308 10k
Q304 2SC3052
C313 3300p
R318 330k
Q302 ~304
BLANK SKIP LEVEL DET
C314 2.2/50
R319 100k
FOR CD MAIN
FOR CD MAIN
CN303
W303
TO 4ZG-1 (Z3NDSHM) C.B W303
O-CLK
I/O BUSY
O-DATA
I-WRQ
O-CD LED
I-SQCLK
I-SQDATA
I-SW
O-CLOSE
O-OPEN
O-DISH F
O-DISH R
I-DISH S
R310 1k
R312 100
R314 1k
R316 1k
R311 100k
R313 82k
2.2V
R320 1k
R322 1k
R324 1k
R325 1k
R326 1k
R328 1k
R329 1k
R330 1k
R321 470k
R327 15k
R332 15k
R323 82k
R317 10k
CN305
CN2
I-DISH S
I-SW
I-WRQ
O-CLOSE
O-OPEN
I-SQDATA
O-DATA
O-CLK
I-SQCLK
I/O BUSY
O-DISH F
O-DISH R
B-SKIP
C01 C02 C03 C04 C05 C06 C07 C08 C09 C10 C12 C13 C11
C15 10/50
C14 10/50
R5 39
R6 39
R7 39
R8 39
C4 47/35
C5 0.01/50
D2 MTZJ5.1B
C1 100/10
D3 MTZJ5.1B
R27 470
R26 100
R28 47k
D1 1SS133
C2 2.2/50
RESET
C6 0.1
5.1V
R9 47
-VFL
VM
I/O-SERIAL
O-MUTE
CDON
D GND
RESET
D GND
IC1
UPD78046HGF
-024-3B9
MICRO CONTROL LER
R13 100
R12 100k
R2 4.7k
R10 47k
R14 47k
R15 47k
R16 47k
R17 47k
R18 47k
R11 47k
R21 100
R22 1k
X1 4.19M
C10 27p
C12 0.01
C8 22p
C9 33p
Q2 RN1410
CLK SHIFT SW
R20 4.7k
R23 47k
R24 47k
C201 0.01
C202 0.01
C203 0.01
C204 0.01
R25 47k
C7 0.01
C11 0.1
R52 10k
R53 10k
L5 10μH
VCC
C254 1000p
C255 1000p
C256 1000p
C251 1000p
C252 1000p
C253 1000p
R256 100k
R255 100k
R254 100k
R253 100k
R252 100k
R251 100k
LED205-207
SLR-342VCT31 RED
LED203-204
SLH-56PCT31 GRN
R207 1.2k
R208 1.2k
R209 1.2k
R205 820
R206 820
DISC1 LED205
DISC2 LED206
DISC3 LED207
PAUSE LED203
PLAY LED204
LED6 LED5 LED4 LED1 LED2
S201-208
EVQ11G04M
CD BLANK SKIP
S208
DISK 1 S205
DISK 2 S206
DISK 3 S207
SKIP (REV) S201
PLAY/PAUSE S202
SKIP (FF) S203
STOP S204
R57 3.3k
R56 2.2k
R55 2.2k
R201 2.2k
R202 2.2k
R203 3.3k
CN101
CN3
D-GND
OPEN/CLOSE S101 EVQ11G04M
DISC CHANGE S102 EVQ11G04M
R101 5.6k
R102 10k
SIGNAL: ◀ PB (AUDIO)

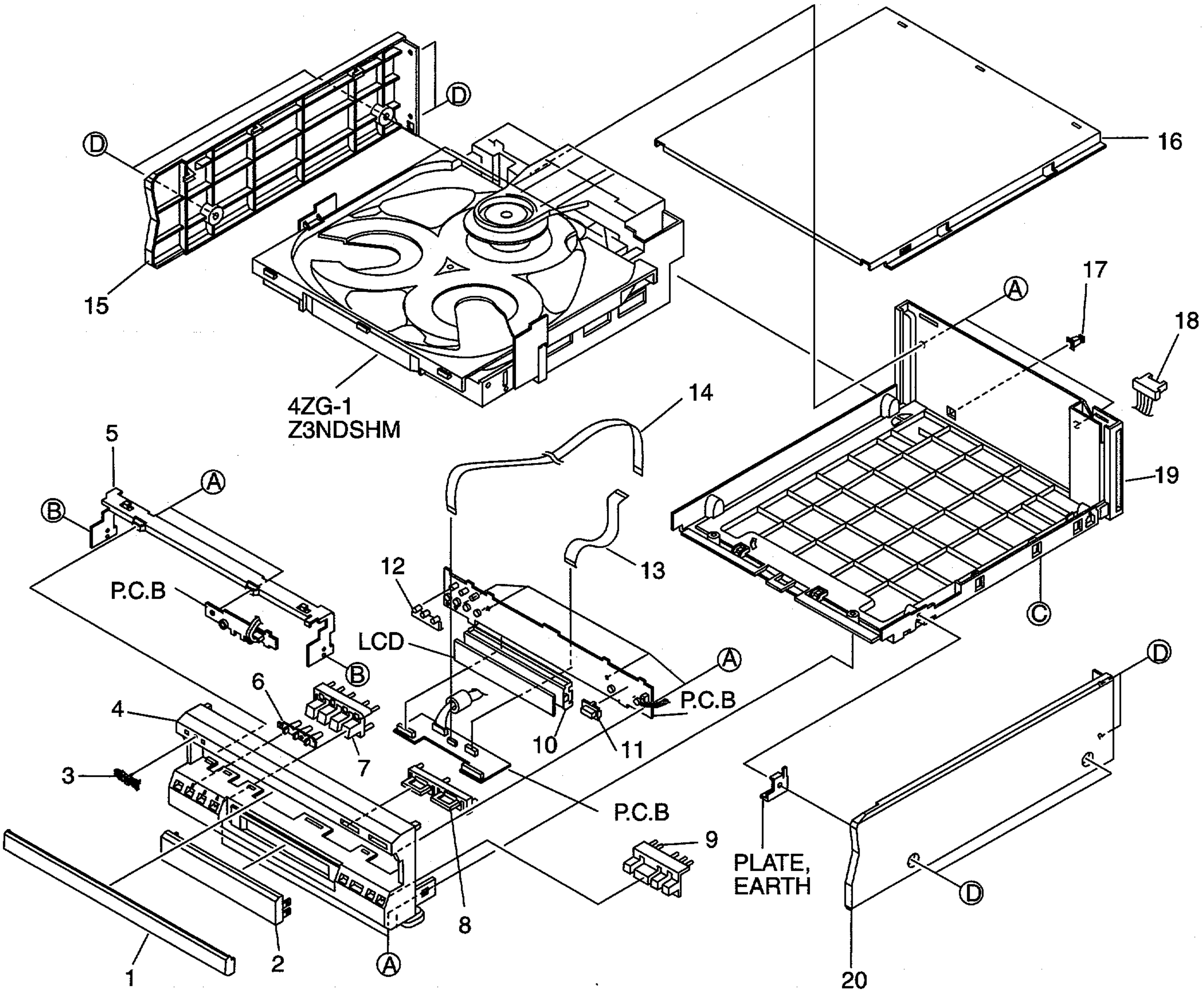
IC DESCRIPTION (DX-NH1100)

IC, UPD78046HGF-032-3B9

Pin No.	Pin Name	I/O	Description
1	NC	–	Not connected.
2~7	G6~G1	O	FL grid output G6~G1.
8	VDD	–	Power supply terminal.
9	O-DISH R	O	CD turntable reverse rotation output.
10	O-DISH F	O	CD turntable forward rotation output.
11	O-CD LED	O	CD flash window LED ON/OFF output.
12	I/O BUSY	I/O	DSP serial latch output.
13	I-SQCLK	I	DSP SUB Q read-out clock output.
14	O-CLK	O	CD clock output.
15	O-DATA	O	CD data output.
16	I-SQDATA	I	DSP serial data input.
17	$\overline{\text{RESET}}$	I	Reset input.
18	O-TRYOPN	O	CD tray open output.
19	O-TRYCLS	O	CD tray close output.
20	A VSS	–	GND.
21	I-WRQ	I	CD WRQ input.
22	I-SW	I	CD motor key switch A/D input.
23	I-DISH S	I	CD turntable photo sensor A/D input.
24	B-SKIP	I	BLANK SKIP A/D input.
25	I-KEY1	I	Key1 A/D input.
26	I-KEY2	I	Key2 A/D input.
27	NC	–	Not used.
28	NC	–	Not used.
29	A VDD	–	Power supply terminal.
30	A VREF	–	Power supply terminal.
31	XT1	–	Connect to GND.
32	XT2	–	Connect to GND.
33	VSS	–	GND.
34	X1	–	4.19MHz oscillator circuit.
35	X2		
36	O-SHIFT	O	Micro controller clock shift output. (Shift when "L").
37	O-CD ON	O	Power supply output for CD circuit ("H": ON).
38	$\overline{\text{LED-2}}$	O	Play LED output.
39	$\overline{\text{LED-1}}$	O	Pause LED output.
40	NC	–	Not used.
41	O-MUTE	O	CD Audio mute output.
42	NC	–	Not used.
43	I/O-SERIAL	I/O	Serial data input / output.
44~46	NC	–	Not used.
47,48	IC	–	Connect to GND.
49	$\overline{\text{LED4}}$	O	Disc1 LED output.
50	$\overline{\text{LED5}}$	O	Disc2 LED output.

Pin No.	Pin Name	I/O	Description
51	$\overline{\text{LED6}}$	O	Disc3 LED output.
52	VDD	–	Power supply terminal.
53	NC	–	Not used.
54	NC	–	Not used.
55	P22 (O-SEG V)	O	FL segment output P22.
56	P19 (O-SEG S)	O	FL segment output P19.
57	P18 (O-SEG R)	O	FL segment output P18.
58	P17 (O-SEG Q)	O	FL segment output P17.
59	P16 (O-SEG P)	O	FL segment output P16.
60	P15 (O-SEG O)	O	FL segment output P15.
61	P20 (O-SEG T)	O	FL segment output P20.
62	P21 (O-SEG U)	O	FL segment output P21.
63	P9 (O-SEG I)	O	FL segment output P9.
64	P10 (O-SEG J)	O	FL segment output P10.
65	P11 (O-SEG K)	O	FL segment output P11.
66	P12 (O-SEG L)	O	FL segment output P12.
67	P13 (O-SEG M)	O	FL segment output P13.
68	P14 (O-SEG N)	O	FL segment output P14.
69, 70, 72~77	P8~1 (O-SEG H~A)	O	FL segment output P8~P1.
71	-VFL	–	FL display negative supply terminal.
78~80	NC	–	Not connected.

MECHANICAL EXPLODED VIEW 1 / 1 (DX-NH1100)


Ⓓ
Ⓓ
16
15
4ZG-1
Z3NDSHM
Ⓐ
17
18
14
5
Ⓐ
Ⓑ
19
12
13
P.C.B
LCD
Ⓒ
Ⓑ
Ⓐ
6
P.C.B
Ⓓ
4
10
11
7
3
P.C.B
9
PLATE,
EARTH
8
Ⓓ
1
2
Ⓐ
20

MECHANICAL PARTS LIST 1 / 1 (DX-NH1100)

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-SX1-002-010		PANEL,TRAY
2	8Z-SX1-003-010		WINDOW,CD
3	87-B00-002-010		BADGE,AIWA 30 ABS SIL
4	8Z-SX1-001-010		CABI,FR
5	8Z-SX1-201-010		HLDR,CD
6	8Z-SX1-009-010		REFLECTOR,DISC
7	8Z-SX1-005-010		KEY,DISC
8	8Z-SX1-004-010		KEY,OPEN
9	8Z-SX1-008-010		KEY,ASSY OPE
10	88-SX1-203-210		GUIDE,FL
11	8Z-SX1-202-010		GUIDE,LED OPE
12	8Z-SX1-203-010		GUIDE,LED DISC
13	88-913-121-110		FF-CABLE,P1.25
14	88-906-481-110		FF-CABLE, 6P 1.25 480MM
15	8Z-SX1-011-010		PANEL,SIDE L
16	8Z-SX1-013-010		CABI,STEEL
17	84-ZG1-245-210		CAP,OPTICAL
18	88-SX1-610-010		CORD,FG 11P
19	8Z-SX1-016-010		CABI,REAR YJSM<YJ>
19	8Z-SX1-017-010		CABI,REAR YSM<Y>
20	8Z-SX1-012-010		PANEL,SIDE R
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-721-097-410		QT2+3-12 GLD
C	87-067-633-010		TAPPING SCREW, BVT2+3-8
D	87-B10-091-010		UTT2+3-10 W/O BLK

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

MODEL NO.

FX-NH1100

ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A20-455-010		IC,HA12211
	87-A20-355-010		IC,CXA1553P
	8Z-SW1-608-040		IC,M38503M4-094FP T4
	87-020-454-010		IC,DN6851
TRANSISTOR			
	87-A30-087-080		C-FET,2SK2158
	87-A30-074-080		C-TR,RT1P 141C
	87-026-610-080		TR,KTC3198GR
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-076-080		C-TR,2SC3052F
	89-112-965-080		TR,2SA1296 (0.75W)
	87-A30-085-070		C-TR,CSA1362GR
	89-318-155-080		TR,2SC1815 (0.4W)
	89-332-665-080		TR,2SC3266GR<YJSM>
	87-A30-164-080		TR,CSC2001K<YSM>
	87-026-263-080		C-TR,RN1410
	87-A30-071-080		C-TR,RT1N 144C
	87-026-463-080		TR,2SA933SRS
DIODE			
	87-A40-269-080		C-DIODE,MC2836
	87-020-465-080		DIODE,1SS133 (110MA)
	87-017-931-080		ZENER,MTZJ5.6B
MAIN C.B			
C301	87-010-318-080		C-CAP,S 47P-50 CH
C302	87-010-318-080		C-CAP,S 47P-50 CH
C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-50 CH
C305	87-012-145-080		CAP, CHIP S 270P CH
C306	87-012-145-080		CAP, CHIP S 270P CH
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-198-080		CAP, CHIP 0.022
C312	87-010-198-080		CAP, CHIP 0.022
C313	87-010-180-080		C-CER 1500P
C314	87-010-180-080		C-CER 1500P
C315	87-010-178-080		CHIP CAP 1000P<YSM>
C316	87-010-178-080		CHIP CAP 1000P<YSM>
C317	87-012-142-080		CAP, S 0.33-16
C318	87-012-142-080		CAP, S 0.33-16
C319	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C320	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C321	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C322	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C324	87-010-260-080		CAP, ELECT 47-25V
C325	87-010-370-080		CAP,E 330-6.3 SME
C327	87-010-404-080		CAP, ELECT 4.7-50V
C328	87-010-404-080		CAP, ELECT 4.7-50V
C332	87-010-196-080		CHIP CAPACITOR,0.1-25
C335	87-010-401-080		CAP, ELECT 1-50V
C336	87-010-401-080		CAP, ELECT 1-50V
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C339	87-010-196-080		CHIP CAPACITOR,0.1-25
C340	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-012-140-080		CAP 470P
C352	87-012-140-080		CAP 470P
C354	87-010-175-080		CAP 560P<YSM>
C355	87-010-178-080		CHIP CAP 1000P<YSM>
C356	87-010-260-080		CAP, ELECT 47-25V
C357	87-010-197-080		C-CAP,S 0.01-25 KB C2012
C358	87-010-183-080		C-CAP,S 2700P-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B
C360	87-010-183-080		C-CAP,S 2700P-50 B
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C371	87-010-179-080		CAP,CHIP S B1200P
C372	87-010-179-080		CAP,CHIP S B1200P
C373	87-010-179-080		CAP,CHIP S B1200P
C374	87-010-179-080		CAP,CHIP S B1200P
C375	87-010-545-080		CAP, ELECT 0.22-50V
C376	87-010-545-080		CAP, ELECT 0.22-50V
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C381	87-010-197-080		C-CAP,S 0.01-25 KB C2012
C382	87-010-318-080		C-CAP,S 47P-50 CH
C383	87-010-197-080		C-CAP,S 0.01-25 KB C2012
C384	87-010-403-080		CAP, ELECT 3.3-50V
C385	87-010-184-080		CHIP CAPACITOR 3300P(K)
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C399	87-010-197-080		CAP, CHIP 0.01 DM<YSM>
C601	87-015-997-090		CAP,E 2200-16 SME
C602	87-010-381-080		CAP, ELECT 330-16V
C603	87-010-101-080		CAP, ELECT 220-16
C604	87-010-237-080		CAP, ELECT 1000-16V
C605	87-010-198-080		CAP, CHIP 0.022
C606	87-010-404-080		CAP, ELECT 4.7-50V
C607	87-010-263-080		CAP, ELECT 100-10V
C609	87-010-196-080		CHIP CAPACITOR,0.1-25
C610	87-010-318-080		C-CAP,S 47P-50 CH
C611	87-010-312-080		C-CAP,S 15P-50 CH
C612	87-010-315-080		C-CAP,S 27P-50 CH
C613	87-010-404-080		CAP, ELECT 4.7-50V
C614	87-010-197-080		CAP, CHIP 0.01 DM
CN301	87-049-919-010		CONN,3P EH V WHT
CN501	87-099-750-010		CONN,15P V 9604SC
CN702	87-A60-062-010		CONN,05P V 9604S-05C
CN704	87-A60-060-010		CONN,07P V 9604S-07C
FB301	87-008-372-080		FILTER, EMI BL OIRNI
FB601	87-008-372-080		FILTER, EMI BL OIRNI
FB602	87-008-372-080		FILTER, EMI BL OIRNI
FB603	87-008-372-080		FILTER, EMI BL OIRNI
FB604	87-A90-923-010		F-BEAD,8-13-14 E1314MRT
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85K BIAS
L601	87-005-130-080		COIL,10UH
L603	87-005-130-080		COIL,10UH
PIN301	87-099-827-010		CONN,3P S2M-3W
PIN351	87-099-832-010		CONN,8P S2M-8W
SFR301	87-024-355-080		SFR,33K DIA6 H
SFR302	87-024-355-080		SFR,33K DIA6 H
SFR303	87-024-355-080		SFR,33K DIA6 H
SFR304	87-024-355-080		SFR,33K DIA6 H
SFR305	87-024-356-080		SFR,47K DIA6 H
SFR306	87-024-356-080		SFR,47K DIA6 H
SFR351	87-024-356-080		SFR,47K DIA6 H
SFR352	87-024-356-080		SFR,47K DIA6 H
W601	88-SW1-607-010		CORD,FG9P
X601	87-A70-120-080		VIB,8.00MHZ MTZ-TF01
FRONT-1 C.B			
CN701	87-A60-062-010		CONN,05P V 9604S-05C

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
D701	87-070-278-010		LED,SLZ-738A-24-S
D702	87-002-787-080		LED,SEL 6215S RED
S701	87-A90-095-080		SW,TACT EVQ11G04M
S702	87-A90-095-080		SW,TACT EVQ11G04M
S703	87-A90-095-080		SW,TACT EVQ11G04M
S704	87-A90-095-080		SW,TACT EVQ11G04M

FRONT-2 C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CN703	87-A60-060-010		CONN,07P V 9604S-07C
D711	87-A40-496-040		LED,SLR-342MCT31 GRN
D712	87-A40-496-040		LED,SLR-342MCT31 GRN
D713	87-A40-496-040		LED,SLR-342MCT31 GRN
D714	87-070-278-010		LED,SLZ-738A-24-S
S711	87-A90-095-080		SW,TACT EVQ11G04M
S712	87-A90-095-080		SW,TACT EVQ11G04M
S713	87-A90-095-080		SW,TACT EVQ11G04M
S714	87-A90-095-080		SW,TACT EVQ11G04M
S715	87-A90-095-080		SW,TACT EVQ11G04M

HEAD-1 C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
	85-ZM3-602-010		PWB, FLEX A

HEAD-2 C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
	85-ZM3-602-010		PWB, FLEX A

DECK C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CN502	87-099-756-010		CONN,15P 9604 S F
SFR1	87-024-581-089		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-010		SOL ASSY, 27
SOL2	82-ZM1-618-010		SOL ASSY, 27
SW1	87-A90-248-010		SW,MICROESE11SH2CXQ
SW2	87-A90-248-010		SW,MICROESE11SH2CXQ
SW3	87-A90-248-010		SW,MICROESE11SH2CXQ
SW4	87-036-110-010		SW,MICRO SPPB62
SW5	87-036-110-010		SW,MICRO SPPB62
SW6	87-036-110-010		SW,MICRO SPPB62
SW8	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW9	87-036-110-010		SW,MICRO SPPB62
W1	82-ZM3-601-010		RBN,CORD 4P-75

Oチップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding

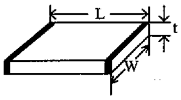
$\boxed{8}\boxed{8}$ − □□□ □□□

A
抵抗部品コード
Resistor Code

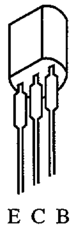
桁表示
Figure

抵抗値
Value of resistor

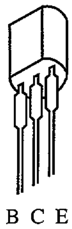
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	±5%	CJ		1.0	0.5	0.35	104
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

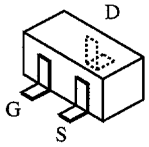
TRANSISTOR ILLUSTRATION (FX-NH1100)



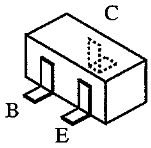
2SC1815
2SC3266
CSC2001K
KTC3198GR



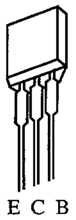
2SA1296



2SK2158

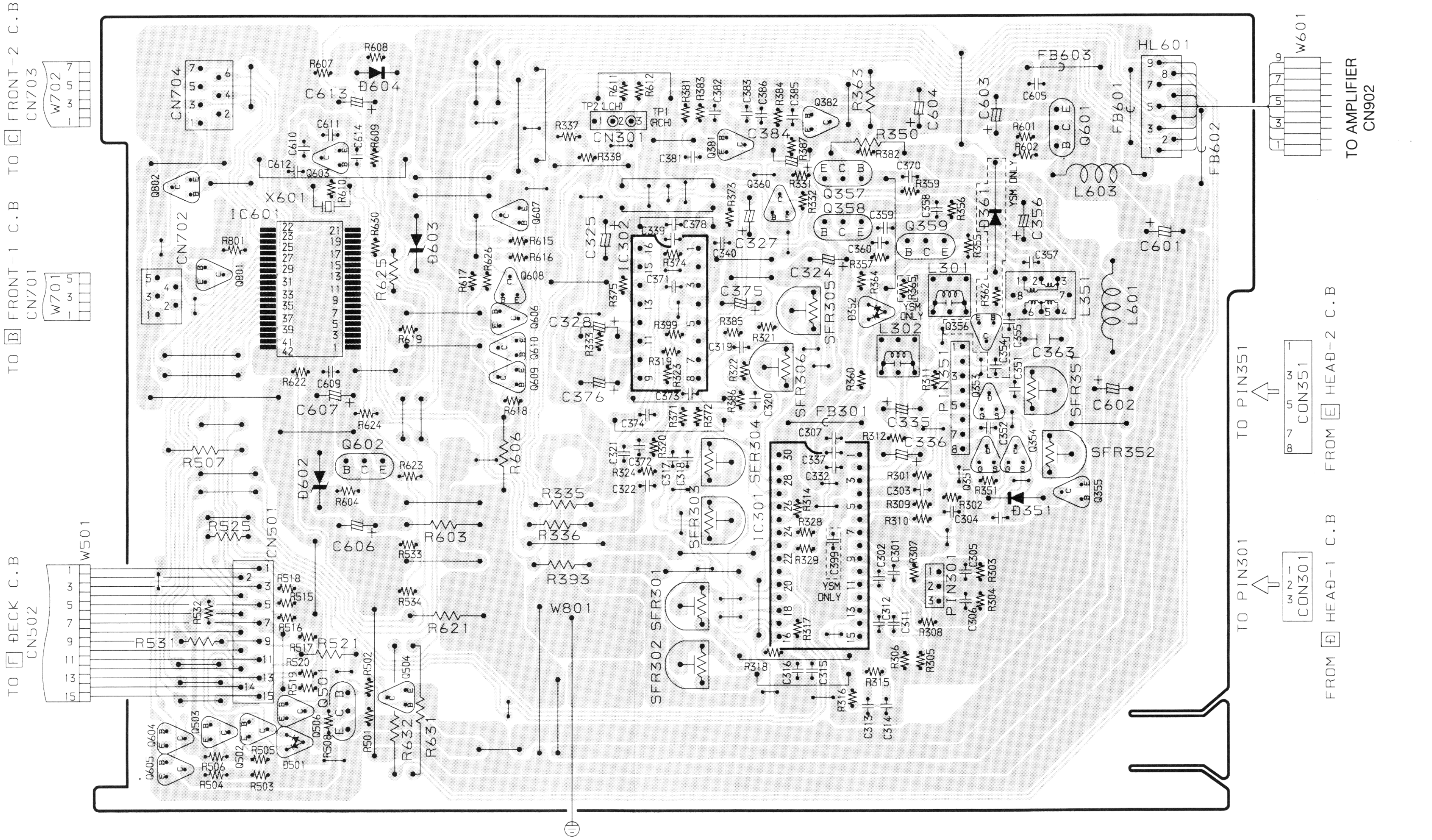


2SC3052
CSA1362
RN1410
RT1N141C
RT1N144C
RT1P141C

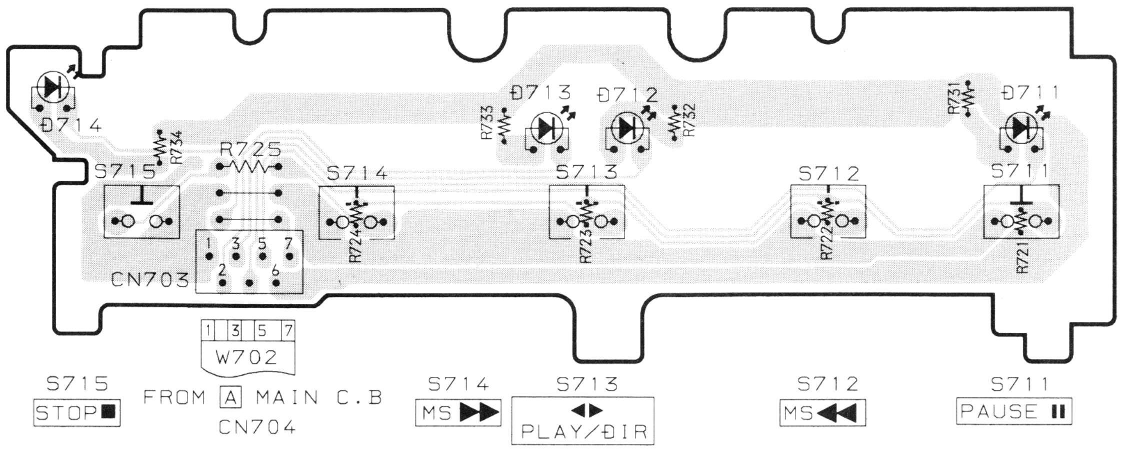


2SA933SRS

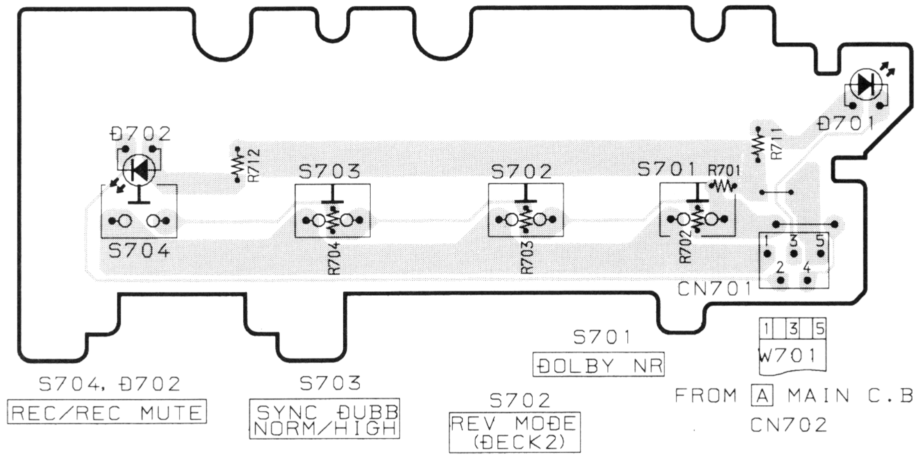
A MAIN C.B


TO C FRONT-2 C.B CN703
W702
CN704
TO B FRONT-1 C.B CN701
W701
CN702
IC601
X601
Q602
D602
D603
D604
CN301
TP2 (LCH)
TP1 (RCH)
IC302
IC301
SFR301
SFR302
SFR303
SFR304
SFR305
SFR306
SFR351
SFR352
FB301
FB601
FB602
FB603
HL601
L301
L302
L351
L601
L603
Q601
Q357
Q358
Q359
PIN301
PIN351
D351
YSM ONLY
W601
TO AMPLIFIER CN902
TO PIN351
CON351
FROM E HEAD-2 C.B
TO PIN301
CON301
FROM D HEAD-1 C.B
TO F DECK C.B CN502
W501
CN501
W801

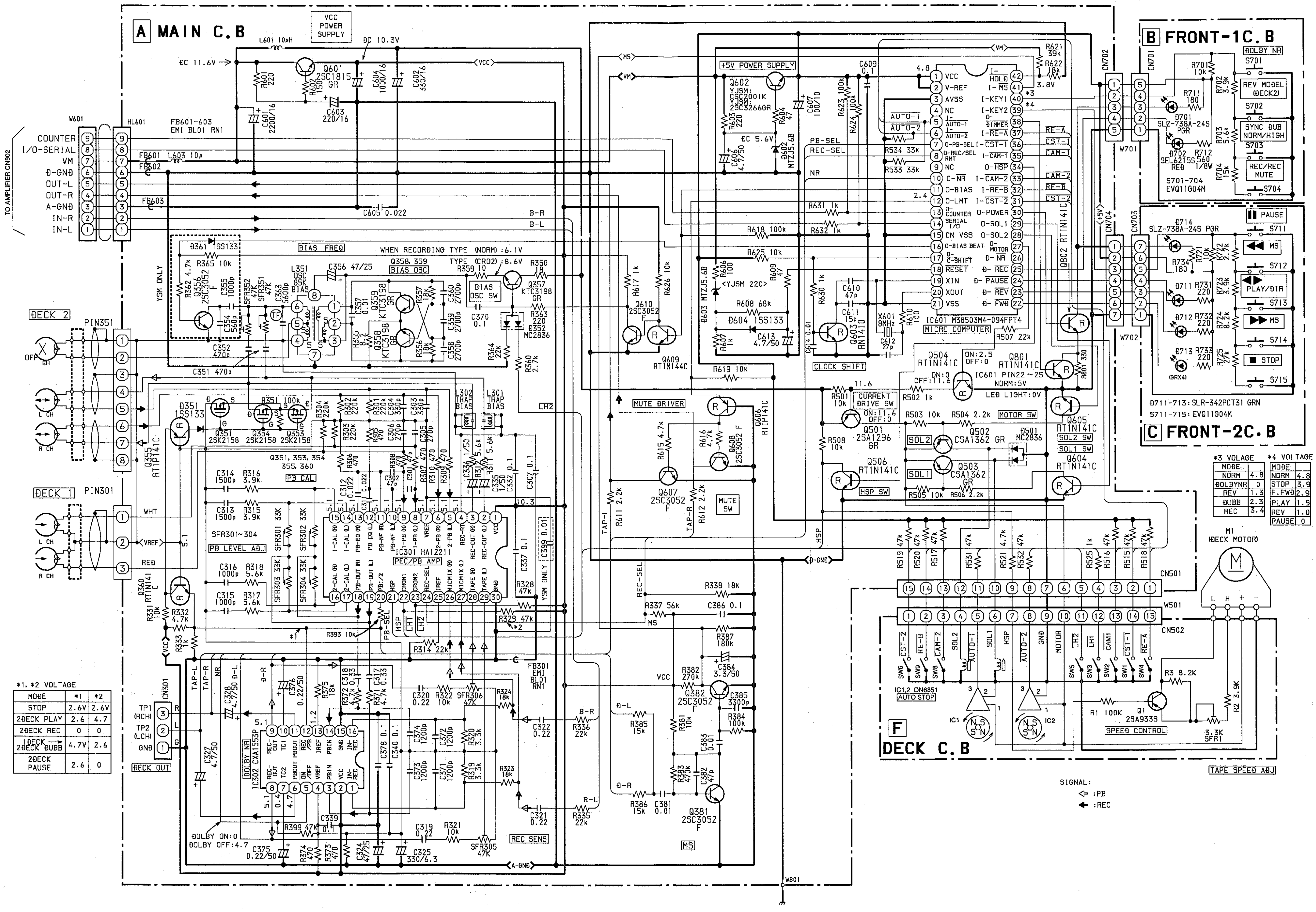
C FRONT-2 C.B


D714
D713
D712
D711
R725
S715
S714
S713
S712
S711
CN703
W702
S715 STOP■
FROM A MAIN C.B CN704
S714 MS ▶▶
S713 ◀▶ PLAY/DIR
S712 MS ◀◀
S711 PAUSE ❚❚

B FRONT-1 C.B


D702
D701
S704
S703
S702
S701
CN701
W701
S704, D702 REC/REC MUTE
S703 SYNC DUBB NORM/HIGH
S702 REV MODE (DECK2)
S701 DOLBY NR
FROM A MAIN C.B CN702

SCHEMATIC DIAGRAM (MAIN / FRONT / DECK : FX-NH1100)


A MAIN C.B
VCC POWER SUPPLY
B FRONT-1C.B
C FRONT-2C.B
F DECK C.B
TO AMPLIFIER CN902
COUNTER
I/O-SERIAL
VM
Đ-GNĐ
OUT-L
OUT-R
A-GNĐ
IN-R
IN-L
W601
HL601
FB601-603 EMI BL01 RN1
Q601 2SC1815 GR
ĐC 11.6V
ĐC 10.3V
ĐECK 2
PIN351
ĐECK 1
PIN301
BIAS FREQ
BIAS OSC
BIAS OSC SW
WHEN RECORDING TYPE (NORM) : 6.1V
TYPE (CRO2) : 8.6V
Q358, 359 KTC3198
Q357 KTC3198 GR
Q352 MC2836
YSM ONLY
PB CAL
PB LEVEL AĐJ
SFR301~304
IC301 HA12211
PEC/PB AMP
Q351, 353, 354, 355, 360
Q351 2SK2158
Q354 2SK2158
Q353 2SK2158
Q355 RT1P141C
Q360 RT1N141C
IC302 CXA1553P
DOLBY NR
DOLBY ON:0
DOLBY OFF:4.7
REC SENS
ĐECK OUT
CN301
TP1 (RCH)
TP2 (LCH)
GNĐ
+5V POWER SUPPLY
Q602 2SC2001K
Ð602 MTZJ5.6B
ĐC 5.6V
IC601 M38503M4-094FPT4
MICRO COMPUTER
X601 8MHz
CLOCK SHIFT
Q603 RN1410
MUTE ĐRIVER
MUTE SW
Q607 2SC3052 F
Q608 2SC3052 F
Q609 RT1N144C
Q610 2SC3052
Q606 RT1P141C
CURRENT DRIVE SW
Q501 2SA1296 GR
Q502 CSA1362 GR
Q503 CSA1362 GR
Q504 RT1N141C
Q505 MC2836
Q506 RT1N141C
Q604 RT1N141C
Q605 RT1N141C
Q801 RT1N141C
Q802 RT1N141C
MOTOR SW
SOL1
SOL2
SOL1 SW
SOL2 SW
HSP SW
LED LIGHT:0V
IC601 PIN22~25 NORM:5V
ON:2.5 OFF:0
Q381 2SC3052 F
Q382 2SC3052 F
MS
CN702
CN701
W701
CN704
CN703
W702
DOLBY NR
S701
REV MODEL (ĐECK2)
S702
SYNC DUB NORM/HIGH
S703
REC/REC MUTE
S704
Ð701 SLZ-738A-24S PGR
Ð702 SEL6215S REĐ
S701-704 EVQ11G04M
Ð714 SLZ-738A-24S PGR
PAUSE
S711
MS
S712
PLAY/ĐIR
S713
S714
STOP
S715
Ð711-713: SLR-342PCT31 GRN
S711-715: EVQ11G04M
CN501
W501
CN502
M1 (ĐECK MOTOR)
IC1,2 DN6851
AUTO STOP
Q1 2SA933S
SPEEĐ CONTROL
3.3K SFR1
TAPE SPEEĐ AĐJ
W801
SIGNAL:
:PB
:REC

*1, *2 VOLTAGE

MOĐE	*1	*2
STOP	2.6V	2.6V
2ĐECK PLAY	2.6	4.7
2ĐECK REC	0	0
1ĐECK → 2ĐECK ĐUBB	4.7V	2.6
2ĐECK PAUSE	2.6	0

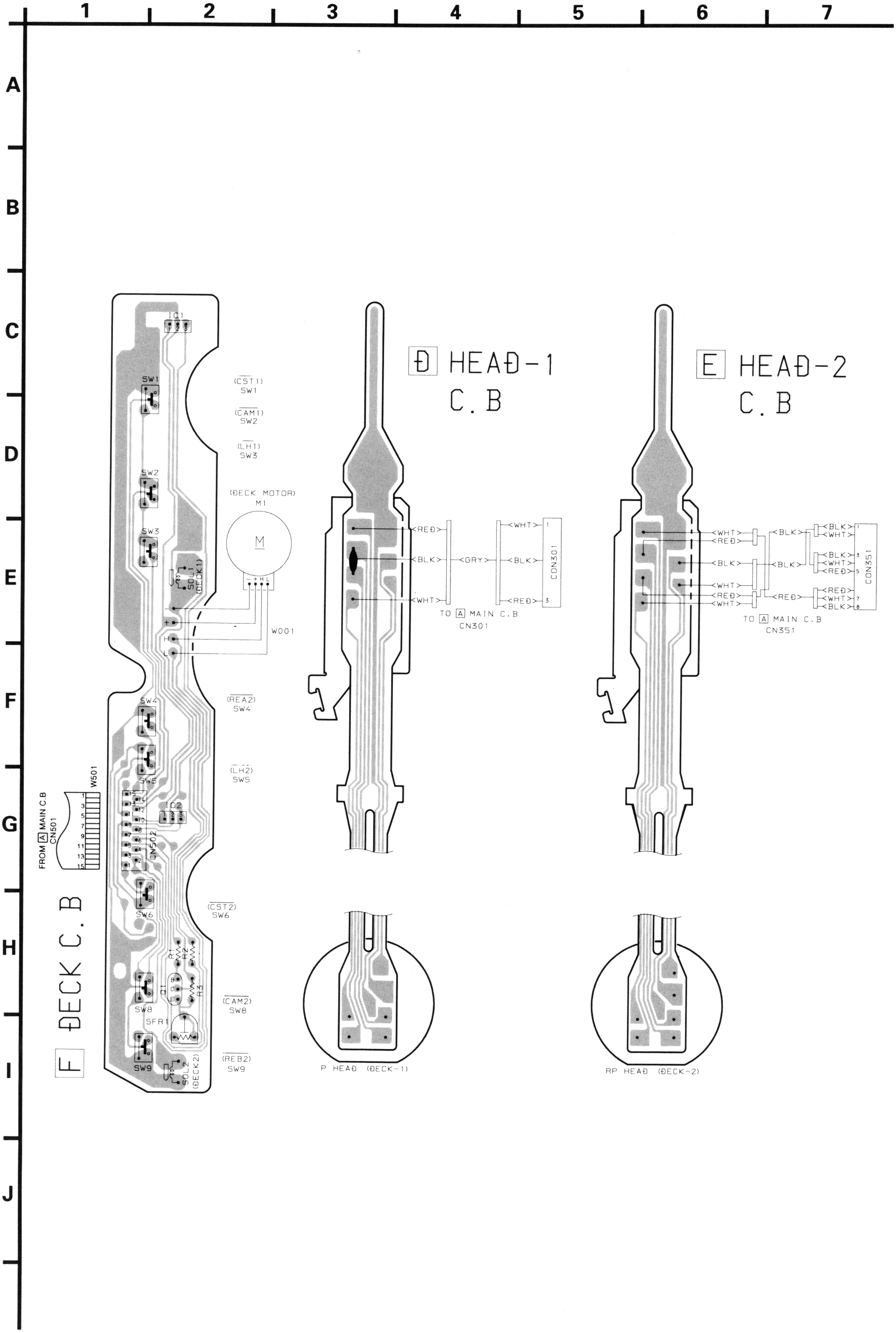
*3 VOLAGE

MOĐE	
NORM	4.8
ĐOLBYNR	0
REV	1.3
ĐUBB	2.3
REC	3.4

*4 VOLTAGE

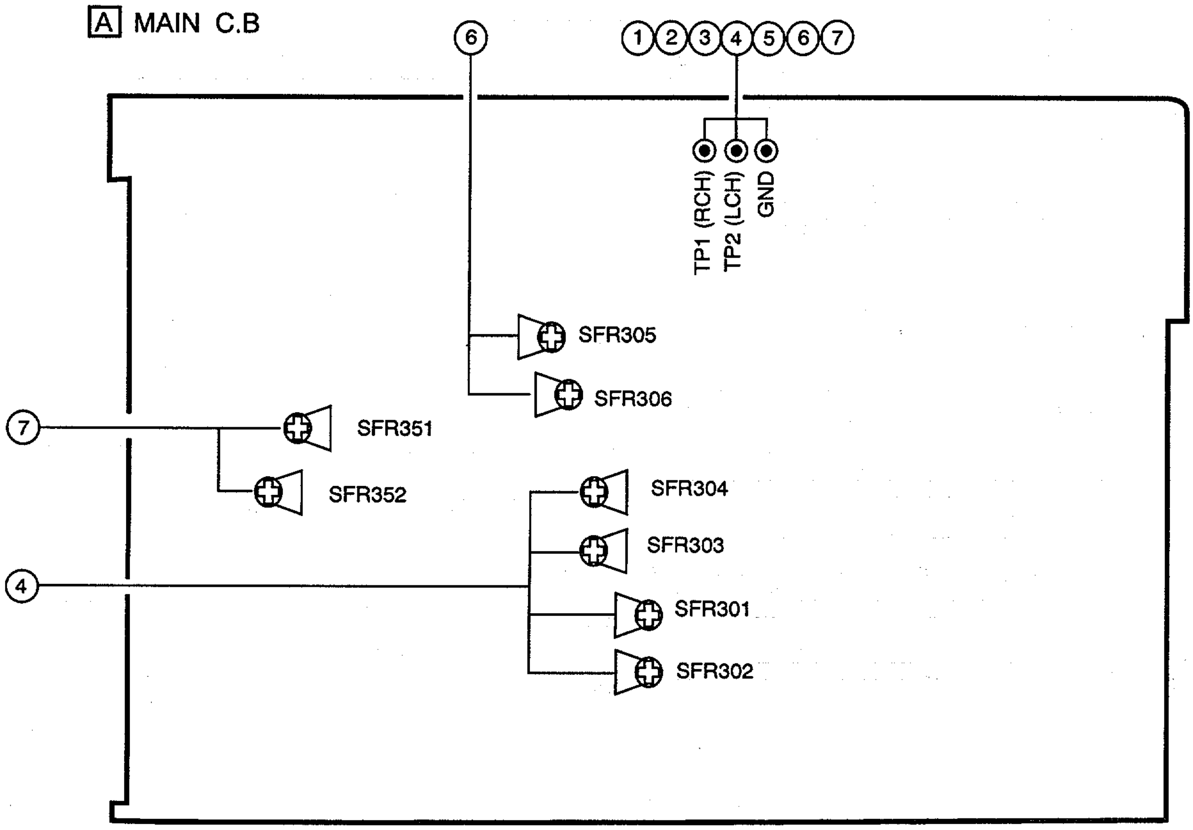
MOĐE	
NORM	4.8
STOP	3.9
F.FWĐ	2.9
PLAY	1.9
REV	1.0
PAUSE	0

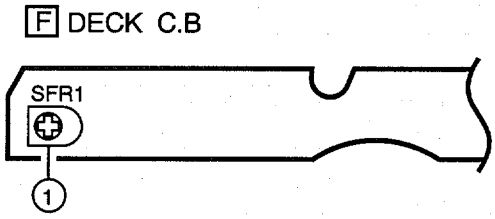
WIRING – 2 (DECK : FX-NH1100)

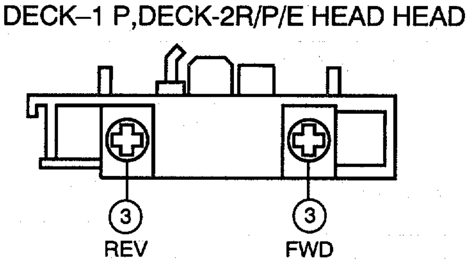


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
F DECK C.B
IC1
SW1
SW2
SW3
SOL1 (DECK1)
(CST1) SW1
(CAM1) SW2
(LH1) SW3
(DECK MOTOR) M1
M
– + H L
+
H
L
W001
SW4
SW5
SW6
SW8
SW9
(REA2) SW4
(LH2) SW5
(CST2) SW6
(CAM2) SW8
(REB2) SW9
IC2
CN502
W501
FROM A MAIN C.B CN501
1
3
5
7
9
11
13
15
R1
R2
R3
Q1
SFR1
SOL2 (DECK2)
D HEAD-1 C.B
<RED>
<BLK>
<WHT>
<GRY>
<WHT>
<BLK>
<RED>
CON301
1
3
TO A MAIN C.B CN301
E HEAD-2 C.B
<WHT>
<RED>
<BLK>
<WHT>
<RED>
<WHT>
<BLK>
<BLK>
<RED>
<BLK>
<WHT>
<BLK>
<WHT>
<RED>
<RED>
<WHT>
<BLK>
CON351
1
3
5
7
8
TO A MAIN C.B CN351
P HEAD (DECK-1)
RP HEAD (DECK-2)

ADJUSTMENT <DECK> (FX-NH1100)







< DECK SECTION >

1. Tape Normal Speed Adjustment (DECK1, DECK2)

Settings :	• Test tape :	TTA–100 (Tape center)
	• Test point :	TP1 (Rch), TP2 (Lch)
	• Adjustment location :	SFR1

Method : Play back the test tape and adjust SFR1 so that the test point becomes 3000Hz ± 5Hz(FWD) Then check REV speed is 3000Hz ± 45Hz.

2. High Speed Check (DECK1, DECK2)

Settings :	• Test tape :	TTA–100 (Tape center)
	• Test point :	TP1 (Rch), TP2 (Lch)

Method : After normal speed adjustment, play back (High speed) the test tape. Then check tape speed is 6000Hz ±400Hz (FWD).

3. Head Azimuth Adjustment (DECK1, DECK2)

Settings :	• Test tape :	TTA–300
	• Test point :	TP1(Rch), TP2 (Lch)
	• Adjustment location :	Head azimuth adjustment screw

Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

4 PB Sensitivity Adjustment (DECK1, DECK2)

Settings :	• Test tape :	TTA–200
	• Test point :	TP1 (Rch), TP2 (Lch)
	• Adjustment location :	SFR301 (DECK1, Lch) SFR302 (DECK1, Rch) SFR303 (DECK2, Lch) SFR304 (DECK2, Rch)

Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes 245mV (DECK2), 260mV (DECK1).

5. PB Frequency Response Check (DECK1, DECK2)

Settings :	• Test tape :	TTA–300
	• Test point :	TP1 (Rch), TP2 (Lch)

Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is 0dB .
Next, check that the Lch and Rch difference level of 10kHz signal is less than 2dB.

6. REC/PB Sensitivity Adjustment (DECK2)

Settings : • Test tape : TTA–602
• Test point : TP1 (Rch), TP2 (Lch)
• Input signal : 1kHz (LINE IN)
• Adjustment location : SFR305 (Lch)
SFR306 (Rch)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP1, TP2 becomes 0dB (17mV). Record and play back the 1kHz signals and adjust SFRs so that the output is 0dB ± 0.5dB.

7. REC/PB Frequency Response Adjustment (DECK2)

Settings : • Test tape : TTA–602
• Test point : TP2 (Lch), TP1 (Rch)
• Input signal : 1kHz / 10kHz
(LINE IN)
• Adjustment location : SFR351 (Lch)
SFR352 (Rch)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP1, TP2 becomes 0dB (17mV). Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output level of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.21% (W.R.M.S DECK 1, 2)
Pinch roller pressure :	270 ~ 330g (FWD, REV)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 160g-cm (FWD) 75 ~ 160g-cm (REW)
Back tension :	3 ± 4g-cm (DECK 1, 2)
PB Output level :	245mV ± 1dB (DECK 1) 230mV ± 1dB (DECK 2)
REC/PB Output level :	165mV ± 2dB (NORMAL, CrO2)
Distortion (REC/PB) :	Less than 2.0% (NORMAL, CrO2)
Noise level (PB) :	Less than 1.8mV (NORMAL, ALL FUNCTION OFF)
Noise level (REC/PB) :	Less than 2.0mV (NORMAL, ALL FUNCTION OFF)
Erasing ratio :	More than 60dB (at 125Hz, 10VU)
Test tape :	NORMAL : TTA–602 CrO2 : TTA–615

IC DESCRIPTION (FX-NH1100)

IC, M38503M4-094FP T4

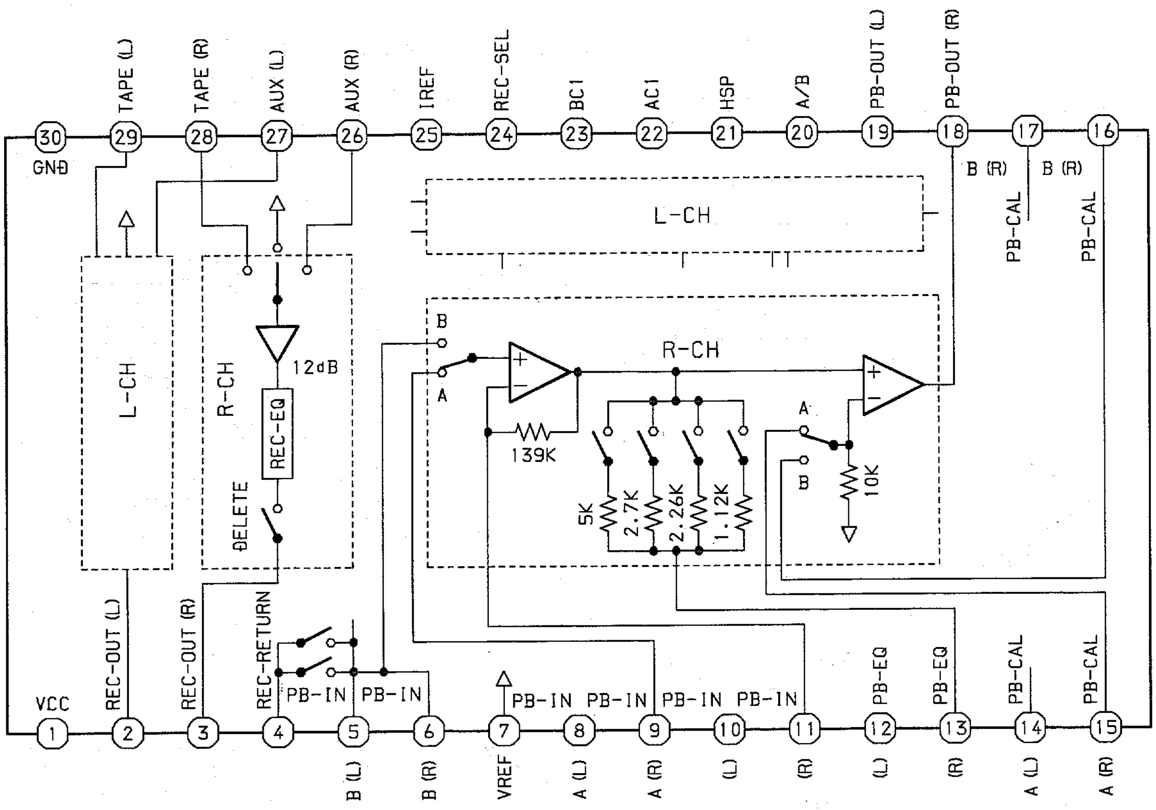
Pin No.	Pin Name	I/O	Description
1	VCC	–	IC power supply.
2	V-REF	–	Connected to VCC.
3	AVSS	–	Connected to GND.
4	NC	–	Not connected.
5	I-$\overline{\text{AUTO1}}$	I	Input of DECK 1 reel platform pulse.
6	I-$\overline{\text{AUTO2}}$	I	Input of DECK 2 reel platform pulse.
7	O-PB-SEL	O	Three-state output. *2 | | O-REC-SEL | O-PB-SEL | | L | TAPE | DECK 2 REC | | H | REC IN | DECK 2 PB | | H1-Z | REC MUTE | DECK 1 PB |
8	O-REC-SEL	O	
9	NC	–	Not connected.
10	O-$\overline{\text{NR}}$	O	When NR is ON: “L”.
11	O-BIAS	O	BIAS control.
12	O-LMT	O	Output LINE MUTE. When MUTE: “H”.
13	O-COUNTER	O	Output tape counter data.
14	SERIAL I/O	I/O	Serial I/O terminal.
15	CN VSS	–	Connected to GND.
16	O-B BEAT	O	For bias beat changeover. When in operation: “H”. Initial: “L”.
17	$\overline{\text{O-C SHIFT}}$	O	While clock shift: “L” **
18	$\overline{\text{RESET}}$	I	RESET signal input pin.
19	XIN	I	Crystal oscillation pin.
20	XOUT	O	Crystal oscillation pin.
21	VSS	–	Connected to GND.
22	D-$\overline{\text{FWD}}$	O	When Power is ON: “L” under STOP status. When FWD operates: flashing (“L” ↔ “H” repeated). While FF: fast flashing.
23	D-$\overline{\text{RVS}}$	O	When Power is ON: “L” under STOP status. When RVS operates: flashing (“L” ↔ “H” repeated). While REW: fast flashing.
24	D-$\overline{\text{PAUSE}}$	O	When Power is ON: “L” under STOP status. While PAUSE: flashing (“L” ↔ “H” repeated).
25	D-$\overline{\text{REC}}$	O	While REC, DUBBING: “L”. While REC, MUTE: flashing.
26	D-$\overline{\text{NR}}$	O	When NR is ON: “L”. (Not connected)
27	O-MOTOR	O	When MOTOR is in operation or power on (500msec): “H”.
28	O-SOL2	O	When DECK 2 solenoid is in operation: “H”.
29	O-SOL1	O	When DECK 1 solenoid is in operation: “H”.
30	O-POWER	O	When POWER of MX-NM1000 / NH1000 is ON: “H” **
31	I-$\overline{\text{CST}}$-2	I	DECK 2 cassette detection. When cassette exists: “L”.
32	I-$\overline{\text{RE}}$-B	I	DECK 2 side B REC enable. When recordable: “L”.
33	I-$\overline{\text{CAM}}$-2	I	DECK 2 cam. When switch is ON: “L”.
34	O-HSP	O	Output high speed signal. High speed: “L”.
35	I-$\overline{\text{CAM}}$-1	I	DECK 1 mechanism cam. When switch is ON: “L”.
36	I-$\overline{\text{CST}}$-1	I	DECK 1 cassette detection. When cassette exists:“L”.
37	I-$\overline{\text{RE}}$-A	I	DECK 2 side A REC enable. When recordable: “L”

Pin No.	Pin Name	I/O	Description
38	O-$\overline{\text{DIMMER}}$	O	Ordinarily “H”. When MX-NH1100 is in DIMMER 1 or 2 mode: “L”.
39	I-KEY2	I	KEY input 2. AD input.
40	I-KEY1	I	KEY input 1. AD input.
41	I-$\overline{\text{MS}}$	I	MS input. AD input.
42	I-$\overline{\text{HOLD}}$	I	System power supply monitor. AD input.

*P1Ns 22, 23, 24, 25, and 26 should be “H” when MX-NH1100 is in DIMMER 2 mode.

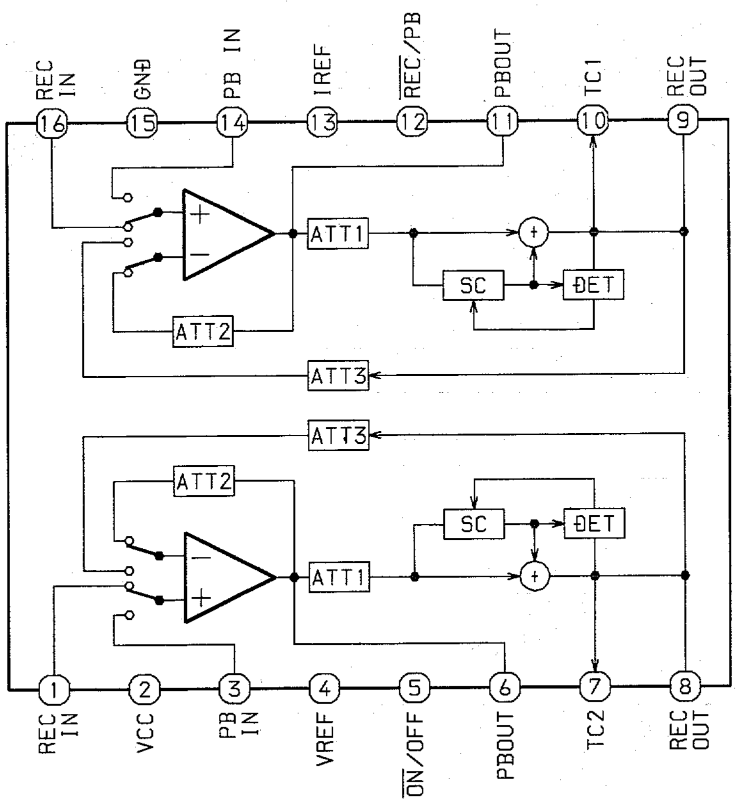
IC BLOCK DIAGRAM (FX-NH1100)

IC, HA12211



TAPE (L)
TAPE (R)
AUX (L)
AUX (R)
IREF
REC-SEL
BC1
AC1
HSP
A/B
PB-OUT (L)
PB-OUT (R)
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
GND
B (R)
B (R)
PB-CAL
PB-CAL
L-CH
L-CH
R-CH
12dB
REC-EQ
DELETE
B
A
R-CH
139K
5K
2.7K
2.26K
1.12K
A
B
10K
VCC
REC-OUT (L)
REC-OUT (R)
REC-RETURN
PB-IN
PB-IN
PB-IN
PB-IN
PB-IN
PB-IN
PB-EQ
PB-EQ
PB-CAL
PB-CAL
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
B (L)
B (R)
VREF
A (L)
A (R)
(L)
(R)
(L)
(R)
A (L)
A (R)

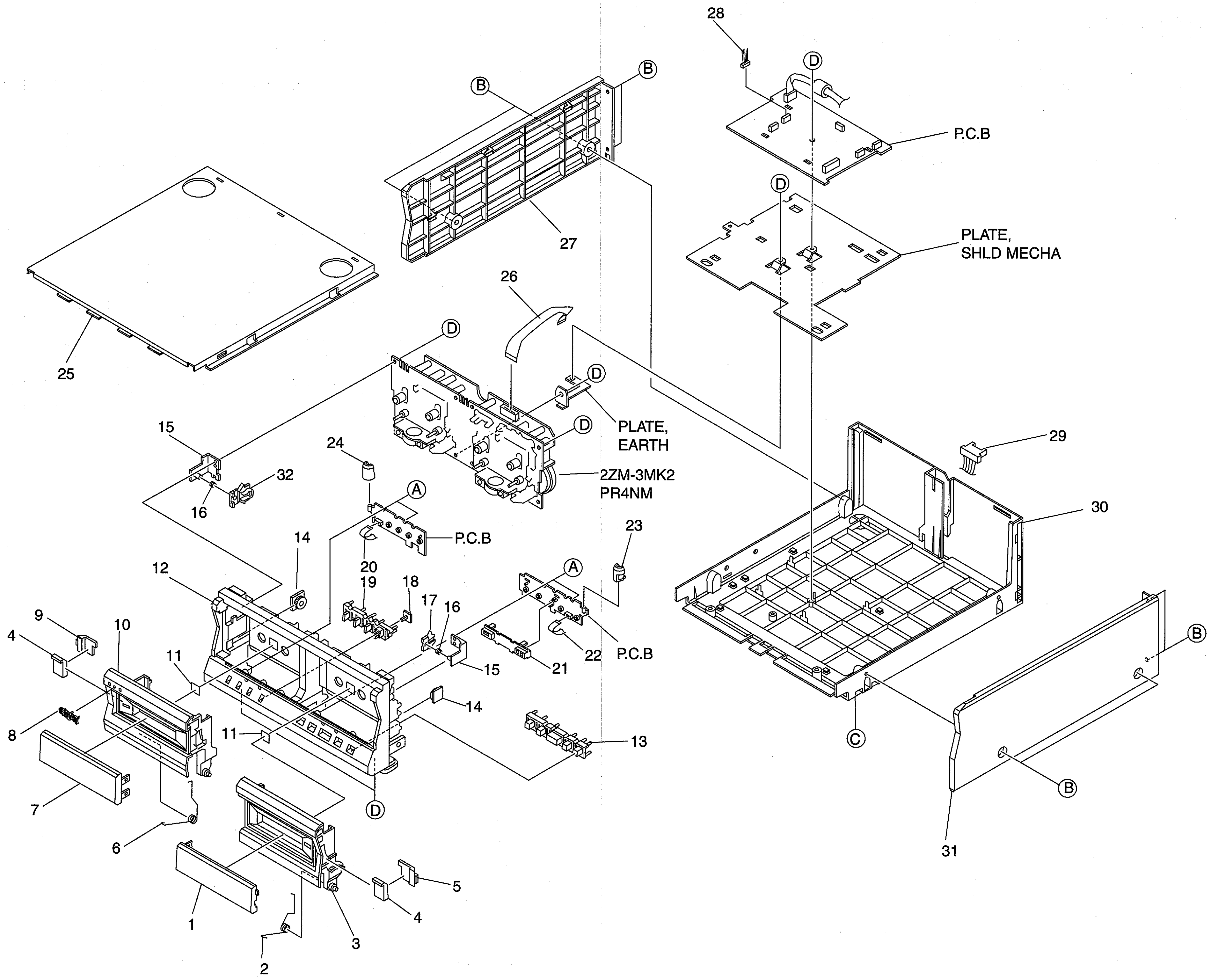
IC, CXA1553P



REC IN
GND
PB IN
IREF
$\overline{\text{REC}}$/PB
PBOUT
TC1
REC OUT
16
15
14
13
12
11
10
9
ATT1
SC
DET
ATT2
ATT3
ATT3
ATT2
SC
DET
ATT1
1
2
3
4
5
6
7
8
REC IN
VCC
PB IN
VREF
$\overline{\text{ON}}$/OFF
PBOUT
TC2
REC OUT

ATT:Attenuator
SC:Side Chain
DET:Detector

MECHANICAL EXPLODED VIEW 1 / 1 (FX-NH1100)


28
Ⓓ
Ⓑ
Ⓑ
P.C.B
Ⓓ
PLATE,
SHLD MECHA
27
25
26
Ⓓ
Ⓓ
PLATE,
EARTH
Ⓓ
2ZM-3MK2
PR4NM
29
15
24
32
16
Ⓐ
P.C.B
30
14
20
23
12
19
18
Ⓐ
17
16
9
10
4
11
22
P.C.B
15
21
14
8
11
13
Ⓒ
Ⓑ
7
Ⓓ
Ⓑ
6
5
1
4
3
2
31

MECHANICAL PARTS LIST 1 / 1 (FX-NH1100)

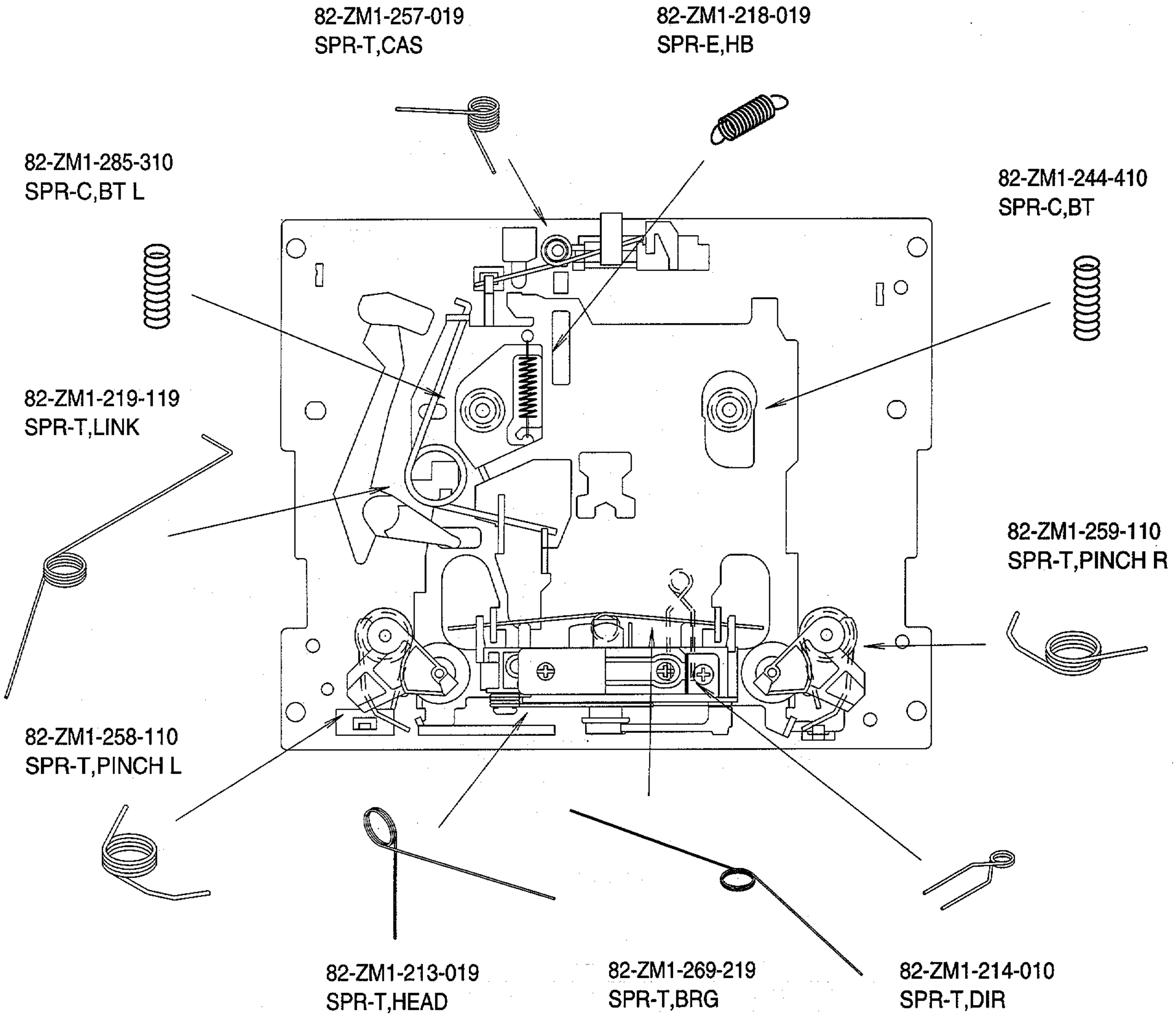
If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

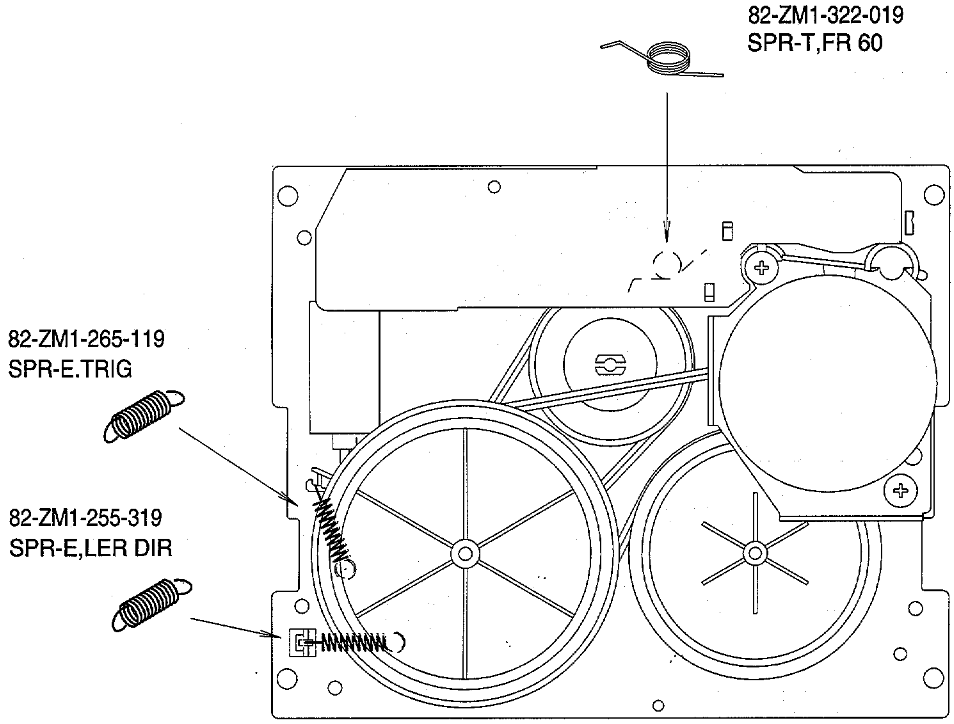
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-SW1-005-010		WINDOW,CASS 2
2	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
3	8Z-SW1-003-010		BOX,CASS 2
4	8Z-SW1-013-010		REFLECTOR,CASS 1
5	8Z-SW1-202-010		COVER, REFLECTOR 2
6	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
7	8Z-SW1-004-010		WINDOW,CASS 1
8	87-B00-002-010		BADGE,AIWA 30 ABS SIL
9	8Z-SW1-201-010		COVER, REFLECTOR 1
10	8Z-SW1-002-010		BOX,CASS 1
11	81-532-080-010		LABEL, CASS. COMPT
12	8Z-SW1-001-010		CABI,FR
13	8Z-SW1-012-010		KEY,ASSY OPE
14	87-NF8-220-010		DMPR,150
15	82-NF5-229-010		PLATE,LOCK
16	86-NF9-224-010		SPR-C,LOCK
17	87-NF4-217-110		HLDR,LOCK 2
18	8Z-SW1-204-010		GUIDE,LED
19	8Z-SW1-011-010		KEY,ASSY REC
20	88-905-331-110		FF-CABLE, 5P 1.25 330MM
21	8Z-SW1-203-010		GUIDE,LED OPE
22	88-907-301-110		FF-CABLE, 7P 1.25
23	8Z-SW1-206-010		GUIDE,LED CASS 2
24	8Z-SW1-205-010		GUIDE,LED CASS 1
25	8Z-SW1-015-010		CABI,STEEL
26	88-915-161-110		FF-CABLE, 15P 1.25
27	8Z-SW1-016-010		PANEL,SIDE L
28	86-NF5-618-110		CONN ASSY,8P RPB
29	88-SW1-607-010		CORD,FG9P
30	8Z-SW1-020-010		CABI,REAR YJSM<YJ>
30	8Z-SW1-022-010		CABI,REAR YSM<Y>
31	8Z-SW1-017-010		PANEL,SIDE R
32	87-NF4-216-010		HLDR,LOCK 1
A	87-067-579-010		TAPPING SCREW, BVT2+3-8
B	87-B10-091-010		UTT2+3-10 W/O BLK
C	87-067-633-010		TAPPING SCREW, BVT2+3-8
D	87-067-703-010		TAPPING SCREW, BVT2+3-10

COLOR NAME TABLE

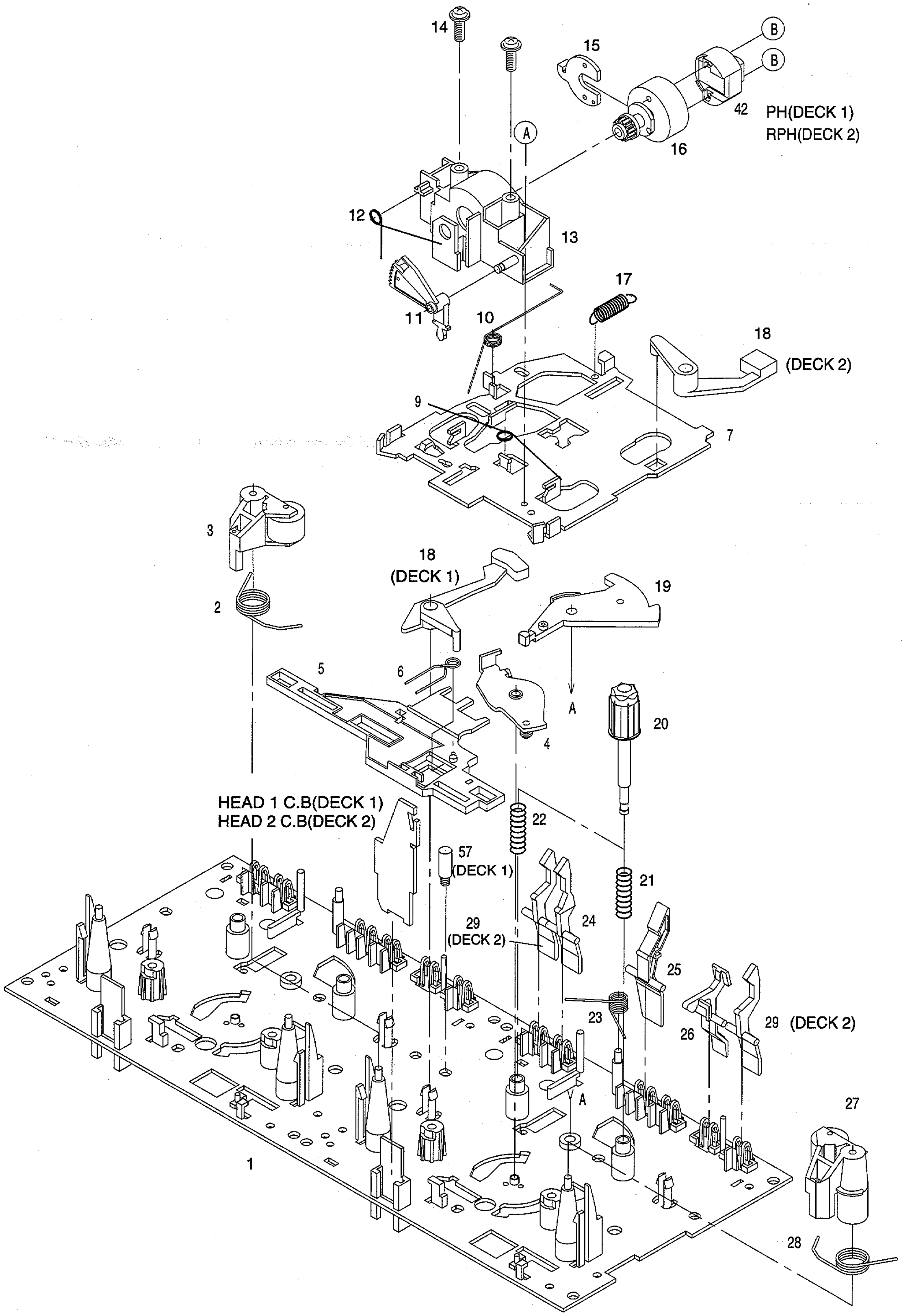
Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

SPRING APPLICATION POSITION (FX-NH1100)

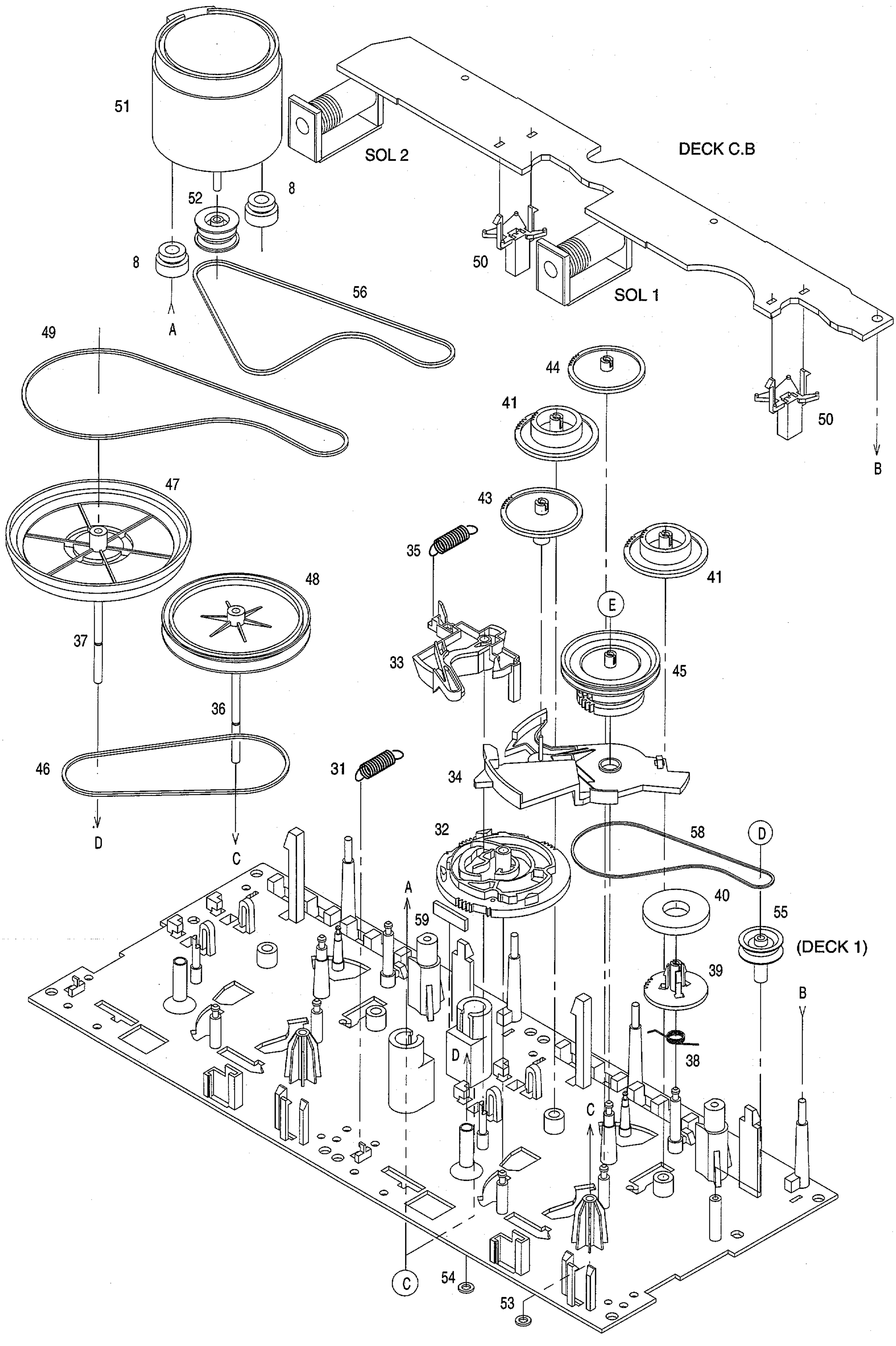

82-ZM1-257-019
SPR-T,CAS
82-ZM1-218-019
SPR-E,HB
82-ZM1-285-310
SPR-C,BT L
82-ZM1-244-410
SPR-C,BT
82-ZM1-219-119
SPR-T,LINK
82-ZM1-259-110
SPR-T,PINCH R
82-ZM1-258-110
SPR-T,PINCH L
82-ZM1-213-019
SPR-T,HEAD
82-ZM1-269-219
SPR-T,BRG
82-ZM1-214-010
SPR-T,DIR


82-ZM1-322-019
SPR-T,FR 60
82-ZM1-265-119
SPR-E.TRIG
82-ZM1-255-319
SPR-E,LER DIR

TAPE MECHANISM EXPLODED VIEW 1 / 2 (FX-NH1100)


14
15
B
B
42
PH(DECK 1)
RPH(DECK 2)
A
16
12
13
17
11
10
18
(DECK 2)
9
7
3
18
(DECK 1)
19
2
5
6
A
20
4
HEAD 1 C.B(DECK 1)
HEAD 2 C.B(DECK 2)
22
57
(DECK 1)
21
29
(DECK 2)
24
25
23
26
29 (DECK 2)
A
27
1
28

TAPE MECHANISM EXPLODED VIEW 2 / 2 (FX-NH1100)


51
SOL 2
DECK C.B
52
8
8
50
SOL 1
56
A
49
44
41
50
B
47
43
35
41
48
E
37
33
45
36
46
31
34
32
58
D
D
C
A
40
55
59
(DECK 1)
39
B
D
38
C
C
54
53

TAPE MECHANISM PARTS LIST 1 / 1 (FX-NH1100)

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2
2	82-ZM1-258-110		SPR-T,PINCH L
3	82-ZM1-341-110		LVR ASSY,PINCH L2
4	82-ZM1-333-010		PLATE,LINK 2
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-81K		CHAS,HEAD
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM1-219-119		SPR-T,LINK
11	82-ZM1-210-119		GEAR,H T
12	82-ZM1-213-019		SPR-T,HEAD
13	82-ZM1-207-619		GUIDE,TAPE
14	86-ZM4-206-010		S-SCREW,AZIMUTH
15	82-ZM1-314-119		PLATE,HEAD
16	82-ZM1-208-119		HLDR,HEAD
17	82-ZM1-218-019		SPR-E,HB
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)
19	82-ZM1-222-21K		LVR,PLAY
20	82-ZM1-217-319		REEL TABLE
21	82-ZM1-244-510		SPR-C,BT
22	82-ZM1-285-310		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM1-241-319		LVR,MC
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-344-110		LVR ASSY,PINCH R2
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
31	82-ZM1-255-319		SPR-E,LVR DIR
32	82-ZM3-305-01K		GEAR,CAM M2
33	82-ZM1-227-21K		LVR,TRIG
34	82-ZM3-306-11K		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TRIG
36	82-ZM1-236-019		CAPSTAN N 2-41.5
37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM3-616-019		RING MAGNET 4
41	82-ZM1-216-31K		GEAR,REEL
42	87-A90-319-010		HEAD,PH HADKH2 FPC
42	87-A90-320-010		HEAD,RPH HADKH5 FPC
43	82-ZM1-225-21K		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
49	82-ZM3-329-210		BELT,SBU R2
50	82-ZM1-245-210		HLDR,IC
51	87-045-347-019		MOT,SHU2L 70(M1)
52	82-ZM3-221-010		PULLEY,MOT 2M
53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
56	82-ZM3-337-010		BELT,SBU MOT 2
57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
58	86-ZM1-206-010		BELT,MAIN L
59	82-ZM3-340-010		SH,BELT D2
A	85-ZM3-202-010		S-SCREW,TG
B	80-ZM6-207-019		V+1.6-7
C	82-ZM3-318-019		S-SCRW MOTOR M2
D	87-B10-043-010		W-P,0.99-4-0.25 SLT
E	82-ZM3-334-010		PW,2.16-6-0.4

MODEL NO.

GE-NH1100/NAVH1200

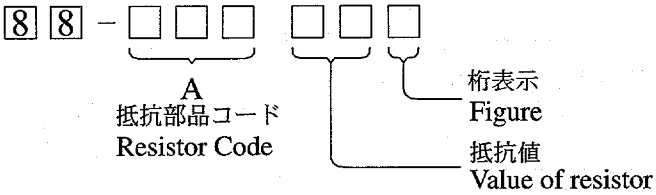
ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

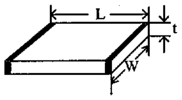
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	8Z-SU1-603-010		IC,LC866448W-5L20
	87-A21-023-040		C-IC,BA3835F
TRANSISTOR			
	87-026-263-080		C-TR,RN1410
DIODE			
	87-070-136-080		ZENER,MTZJ5.1B
	87-017-931-080		ZENER,MTZJ5.6B
	87-020-465-080		DIODE,1SS133 (110MA)
MAIN C.B			
C101	87-010-550-040		CAP,E 100-6.3 GAS
C103	87-010-497-040		CAP,E 4.7-35 GAS
C105	87-010-312-080		C-CAP,S 15P-50 CH
C106	87-010-320-080		CHIP CAP 68P
C107	87-010-316-080		C-CAP,S 33P-50 CH
C108	87-010-196-080		CHIP CAPACITOR,0.1-25
C109	87-010-196-080		CHIP CAPACITOR,0.1-25
C110	87-012-368-080		C-CAP,S 0.1-50 F
C111	87-010-552-040		CAP,E 22-16 GAS
C201	87-012-140-080		CAP 470P
C202	87-012-369-080		C-CAP,S 0.047-50F
C203	87-010-404-040		CAP,E 4.7-50 SME
C204	87-010-405-040		CAP,E 10-50
C205	87-010-405-040		CAP,E 10-50
C206	87-010-405-040		CAP,E 10-50
C301	87-010-196-080		CHIP CAPACITOR,0.1-25
C302	87-010-196-080		CHIP CAPACITOR,0.1-25
C303	87-010-197-080		CAP, CHIP 0.01 DM
C304	87-010-182-080		C-CAP,S 2200P-50 B
C401	87-010-196-080		CHIP CAPACITOR,0.1-25
C402	87-010-196-080		CHIP CAPACITOR,0.1-25
C403	87-010-993-080		CHIP CAPACITOR,0.056-25
C404	87-010-993-080		CHIP CAPACITOR,0.056-25
C405	87-012-358-080		C-CAP,S 0.47-10 F Z
C406	87-010-196-080		CHIP CAPACITOR,0.1-25
C407	87-012-158-080		C-CAP,S 390P-50 CH
FL201	8Z-SU1-605-010		FL,BJ699GK
L101	87-005-152-080		COIL,10UH
L102	87-005-130-080		COIL,10UH
L103	87-005-130-080		COIL,10UH
L104	87-005-152-080		COIL,10UH
L301	87-003-097-080		COIL,1UH
LED201	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED202	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED203	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED204	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED205	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED206	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED207	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED208	87-A40-380-080		LED,SEL6510C-TP5 GRN
LED209	87-A40-317-080		LED,SLR-342VCT31 RED<1200>
LED210	87-A40-317-080		LED,SLR-342VCT31 RED<1200>
LED211	87-A40-317-080		LED,SLR-342VCT31 RED<1200>
LED212	87-A40-317-080		LED,SLR-342VCT31 RED<1200>
LED213	87-A40-317-080		LED,SLR-342VCT31 RED<1200>
LED214	87-A40-317-080		LED,SLR-342VCT31 RED<1200>
LED215	87-A40-317-080		LED,SLR-342VCT31 RED<1200>
LED216	87-A40-317-080		LED,SLR-342VCT31 RED<1200>
S301	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
S305	87-A90-095-080		SW,TACT EVQ11G04M
S306	87-A90-095-080		SW,TACT EVQ11G04M
S307	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M
S309	87-A90-095-080		SW,TACT EVQ11G04M
S310	87-A90-095-080		SW,TACT EVQ11G04M
S311	87-A90-095-080		SW,TACT EVQ11G04M
S312	87-A90-095-080		SW,TACT EVQ11G04M
S313	87-A90-095-080		SW,TACT EVQ11G04M<1200>
S314	87-A90-095-080		SW,TACT EVQ11G04M
S315	87-A90-095-080		SW,TACT EVQ11G04M
S316	87-A91-076-010		SW,RTRY RE0121PVB25FINA1
W101	8Z-SU1-608-010		CORD,52305-101BLK
WH101	87-A90-882-010		HLDR,WIRE 10P 1.5 51016
X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

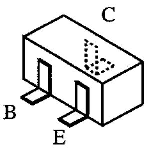
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding


8 8 - □□□ □□□
A
抵抗部品コード
Resistor Code
桁表示
Figure
抵抗値
Value of resistor

チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	±5%	CJ		1.0	0.5	0.35	104
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

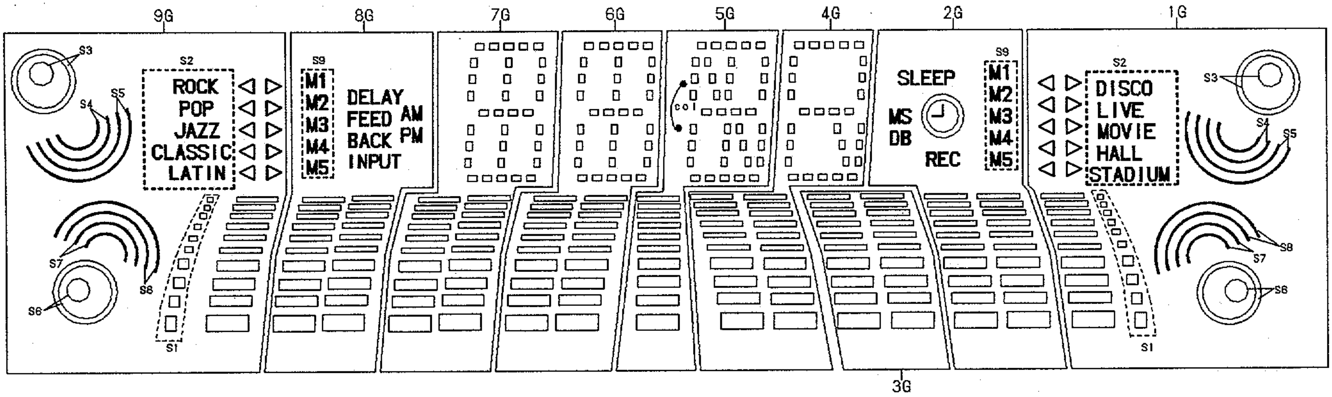
TRANSISTOR ILLUSTRATION (GE-NH1100 / NAVH1200)

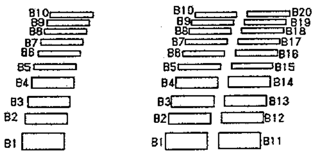


RN1410

FL (BJ699GK) GRID ASSIGNMENT & ANODE CONNECTION
(GE-NH1100 / NAVH1200)

GRID ASSIGNMENT


9G
8G
7G
6G
5G
4G
2G
1G
3G
S1
S2
S3
S4
S5
S6
S7
S8
S9
ROCK
POP
JAZZ
CLASSIC
LATIN
M1
M2
M3
M4
M5
DELAY
FEED
BACK
INPUT
AM
PM
col
SLEEP
MS
DB
REC
DISCO
LIVE
MOVIE
HALL
STADIUM


B1
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B9
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B11
B12
B13
B14
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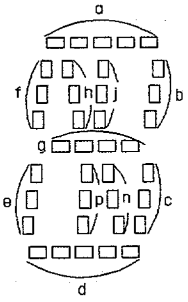
B18
B19
B20

(9G、5G、1G)　　(8G~6G、4G~2G)


a
b
c
d
e
f
g
h
j
n
p

(7G~4G)

ANODE CONNECTION

	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	▷ [M1]	—	a	a	a	a	—	—	[M1] ◁
P2	▷ [M2]	S9	b	b	b	b	—	S9	[M2] ◁
P3	▷ [M3]	DELAY	f	f	f	f	—	SLEEP	[M3] ◁
P4	▷ [M4]	FEED BACK	g	g	g	g	—	◷	[M4] ◁
P5	▷ [M5]	INPUT	c	c	c	c	—	REC	[M5] ◁
P6	[ROCK] ◁	AM	e	e	e	e	—	MS	▷ [DISCO]
P7	[POP] ◁	PM	d	d	d	d	—	DB	▷ [LIVE]
P8	S1	B11	B11	B11	h	B11	B11	B11	S1
P9	B1	B1	B1	B1	B1	B1	B1	B1	B1
P10	S6	B12	B12	n	B12	B12	B12	B12	S6
P11	B2	B2	B2	B2	B2	B2	B2	B2	B2
P12	S7	B13	B13	col(上)	B13	B13	B13	B13	S7
P13	B3	B3	B3	B3	B3	B3	B3	B3	B3
P14	S8	B14	B14	col(下)	B14	B14	B14	B14	S8
P15	B4	B4	B4	B4	B4	B4	B4	B4	B4
P16	S3	B15	B15	—	B15	B15	B15	B15	S3
P17	B5	B5	B5	B5	B5	B5	B5	B5	B5
P18	S4	B16	B16	—	B16	B16	B16	B16	S4
P19	B6	B6	B6	B6	B6	B6	B6	B6	B6
P20	S5	B17	B17	—	B17	B17	B17	B17	S5
P21	B7	B7	B7	B7	B7	B7	B7	B7	B7
P22	S2	B18	B18	—	B18	B18	B18	B18	S2
P23	B8	B8	B8	B8	B8	B8	B8	B8	B8
P24	[JAZZ] ◁	B19	B19	—	B19	B19	B19	B19	▷ [MOVIE]
P25	B9	B9	B9	B9	B9	B9	B9	B9	B9
P26	[CLASSIC] ◁	B20	B20	—	B20	B20	B20	B20	▷ [HALL]
P27	B10	B10	B10	B10	B10	B10	B10	B10	B10
P28	[LATIN] ◁	—	j, p	j, p	j, p	n	—	—	▷ [SATADIUM]

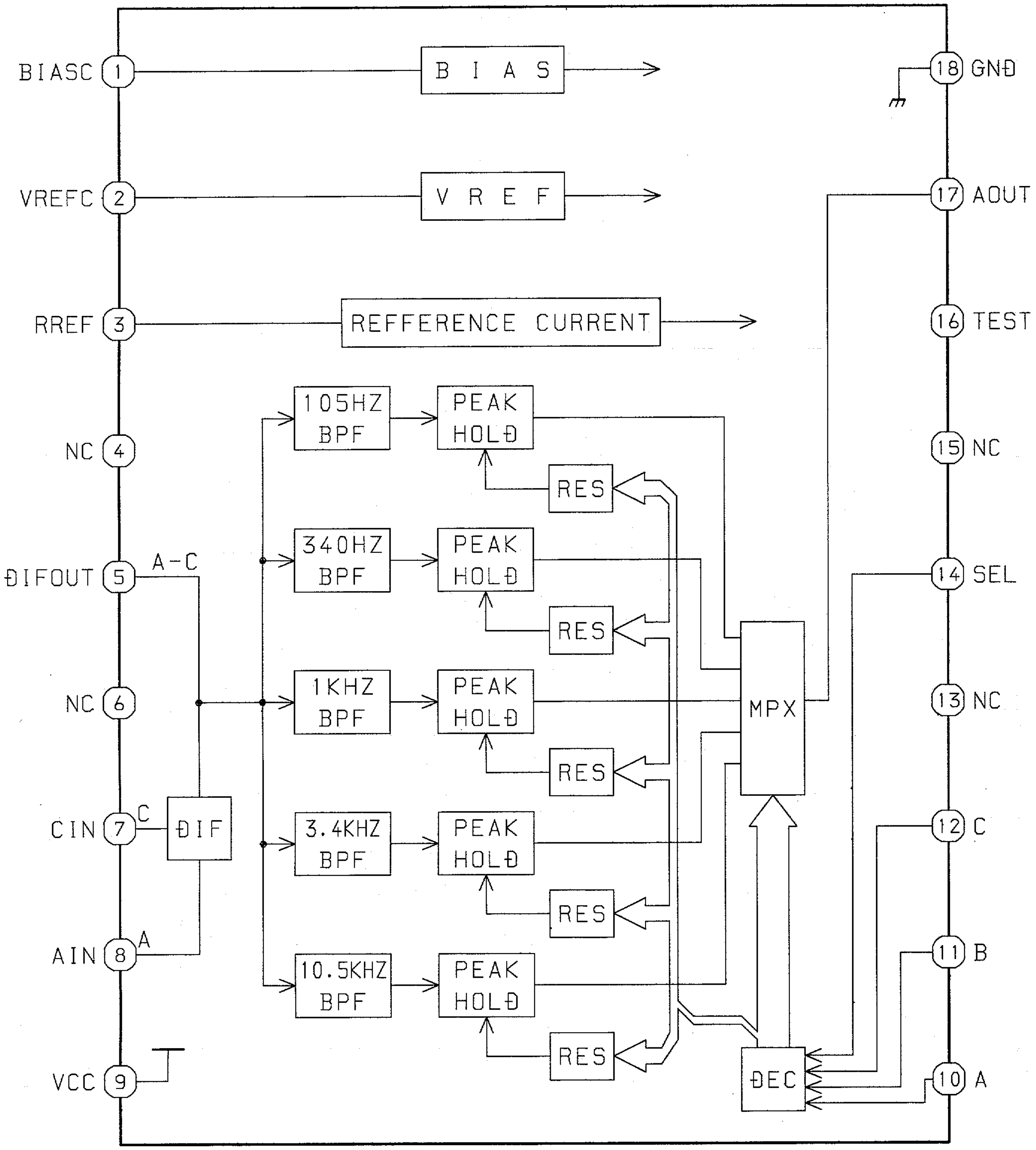
IC DESCRIPTION (GE-NH1100 / NAVH1200)

IC, LC866448W-5L20

Pin No.	Pin Name	I/O	Description
1	O-C.SHIFT	O	Micro computer clock shift output.
2	PRO LOGIC	O	PRO LOGIC LED output.
3	3-STEREO	O	3 STEREO LED output.
4	PHANTOM	O	PHANTOM LED output.
5	NORMAL	O	NORMAL LED output.
6	NC	–	Not used.
7	RESET	I	Reset input.
8	NC	–	Not used (Connected to GND).
9	NC	–	Not used (Connected to GND).
10	VSS1	–	GND.
11	CF1	–	Connected to crystal oscillator (5.76MHz).
12	CF2	–	
13	VDD1	–	Power supply.
14	I-HOLD	I	System power supply monitor AD input."H":Normal operation."L":to stop clock and main memory.
15	I-KEY1	I	KEY 1 AD input.
16	NC	–	Not used (Connected to GND).
17	I-SPEANA	I	Spectrum analyzer level AD input.
18	NC	I	Not used (Connected to GND).
19	I-JOG	I	Jog rotary encoder input.
20~23	NC	–	Not used (Connected to GND).
24	PROLOGIC	I	Input prologic switch "H" when prologic ,"L" when not prologic.
25~33	G1~G9	O	FL gird output.
34~40	S1~S7	O	FL Segment output.
41	VDD2	–	Connected to GND.
42	VP	–	Power FL display negative supply terminal.
43~63	S8~S28	O	FL Segment output.
64	NC	–	Not used.
65	LED ON	O	MULTI JOG LED output.
66	LED ON	O	MULTI JOG LED output.
67~69,72	NC	O	Not connected.
70	O-L FREQ ON	O	Speana low frequency output.
71	O-H FREQ ON	O	Speana high frequency output.
73	VSS2	–	GND.
74	SPEANA C	O	Spectrum analyzer band switch output C.
75	SPEANA B	O	Spectrum analyzer band switch output B.
76	SPEANA A	O	Spectrum analyzer band switch output A.
77	SEL	O	Spectrum analyzer band switch output .
78~79	NC	O	Not connected.
80	I/O-SERIAL	I/O	Input/output serial data for communication.

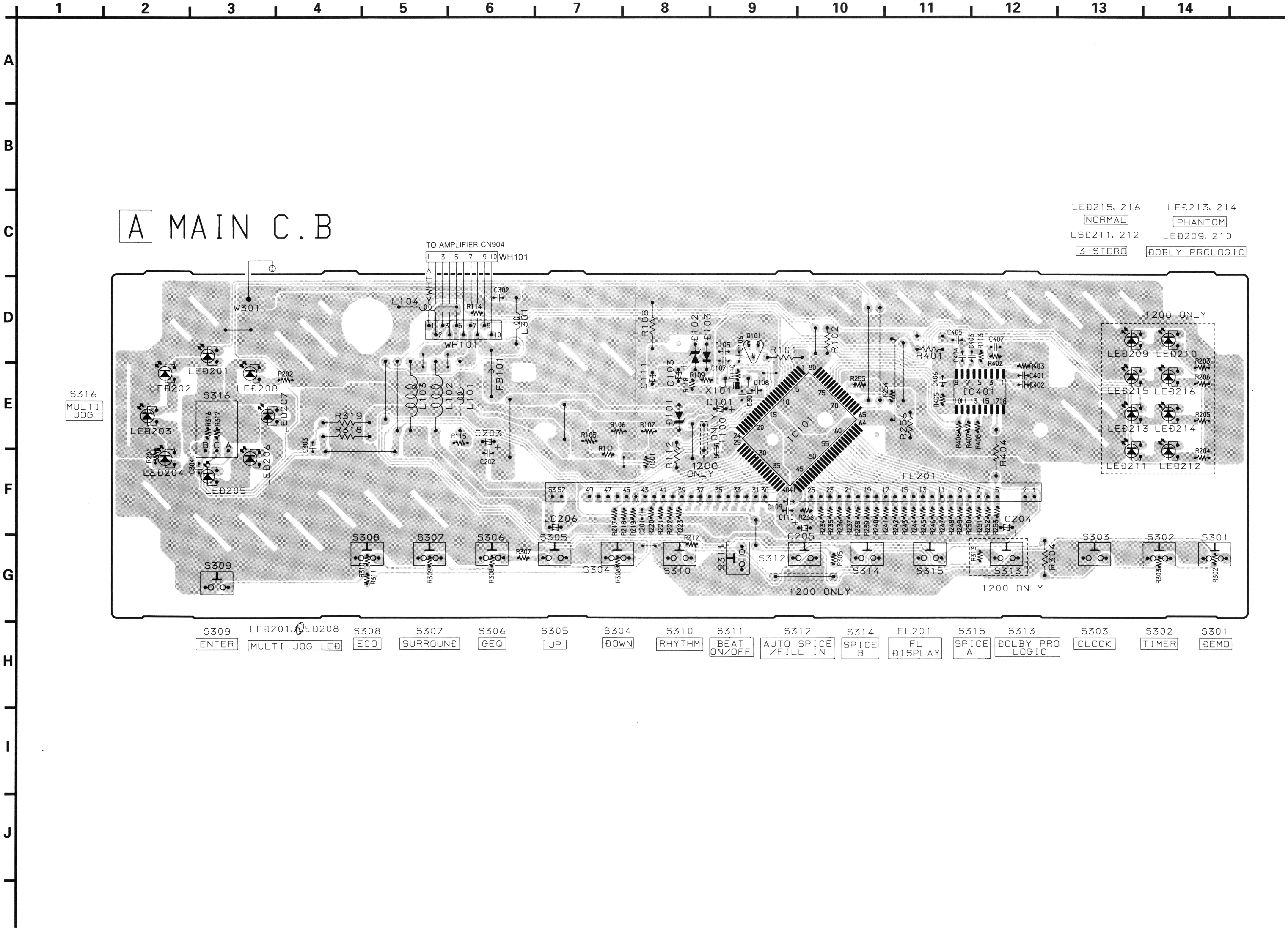
IC BLOCK DIAGRAM (GE-NH1100 / NAVH1200)

IC, BA3835F

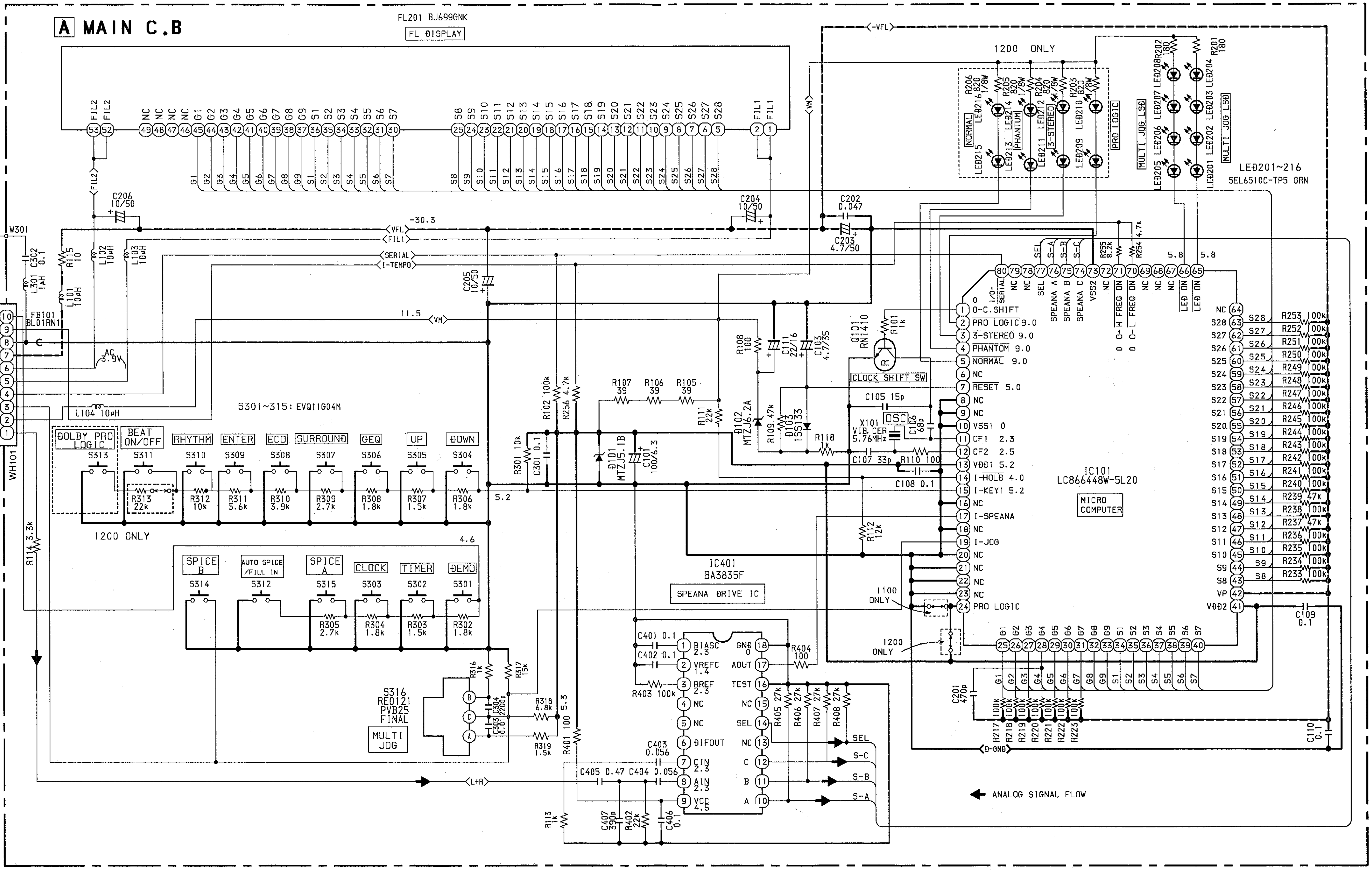


BIASC 1
VREFC 2
RREF 3
NC 4
DIFOUT 5
NC 6
CIN 7
AIN 8
VCC 9
A 10
B 11
C 12
NC 13
SEL 14
NC 15
TEST 16
AOUT 17
GND 18
BIAS
VREF
REFFERENCE CURRENT
105HZ BPF
340HZ BPF
1KHZ BPF
3.4KHZ BPF
10.5KHZ BPF
PEAK HOLD
RES
MPX
DEC
DIF
A-C
C
A

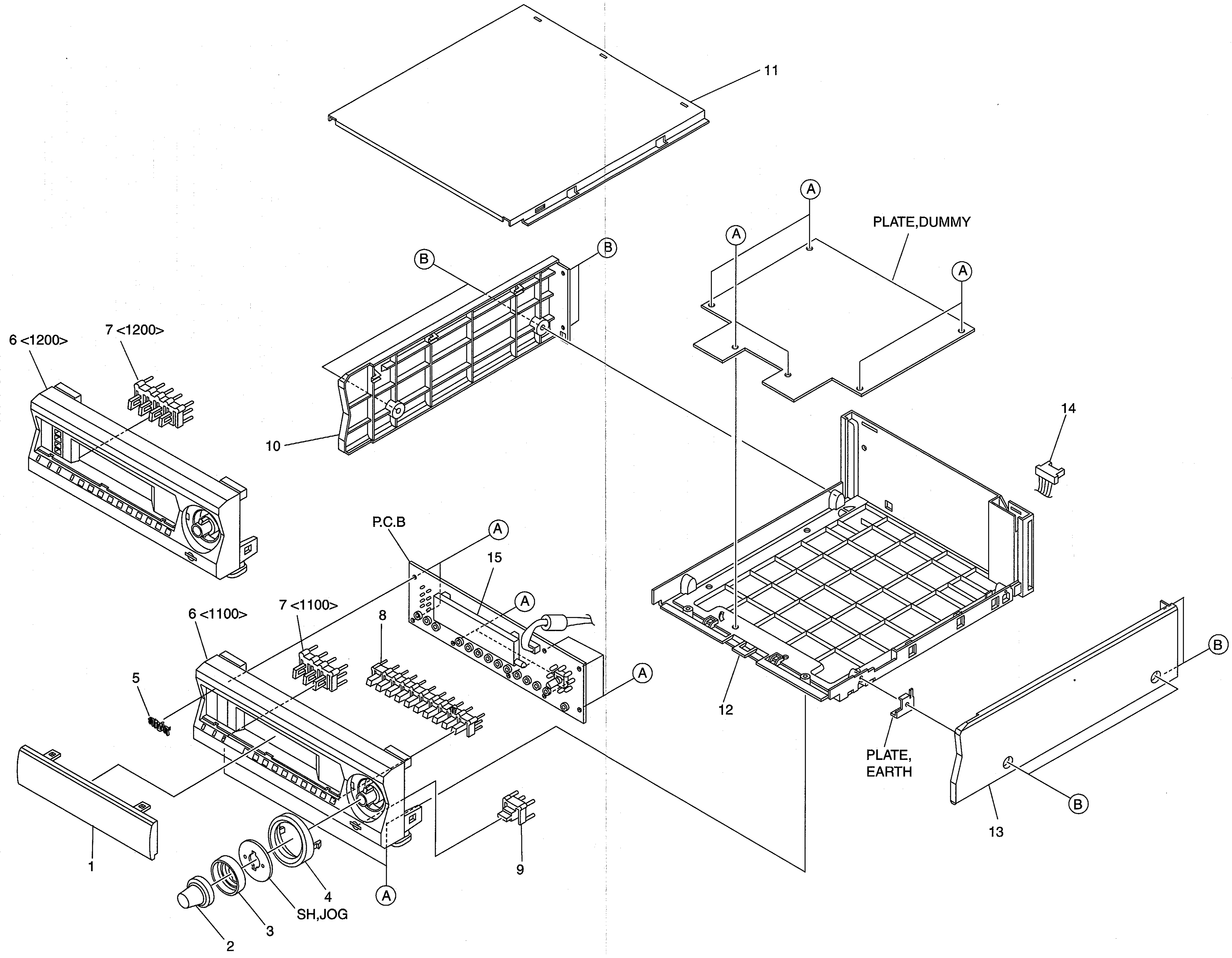
WIRING (MAIN : GE-NH1100 / NAVH1200)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
J
A MAIN C.B
TO AMPLIFIER CN904
WH101
LED215, 216
NORMAL
LSD211, 212
3-STERO
LED213, 214
PHANTOM
LED209, 210
DOBLY PROLOGIC
1200 ONLY
W301
L104
WHT
C302
R114
L301
FB101
L103
L102
L101
R319
R318
C303
C203
C202
R115
R105
R106
R107
R111
R112
R301
R108
D102
D103
D101
C111
C103
R118
R109
C105
C106
C107
Q101
R110
X101
C108
C101
C301
1100 ONLY
1200 ONLY
R101
R102
IC101
R255
R254
R256
R401
C405
C404
C403
R113
C407
R402
R403
C401
C402
C406
R405
IC401
R406
R407
R408
R404
FL201
C109
C110
R233
C205
C206
C204
LED201
LED202
LED203
LED204
LED205
LED206
LED207
LED208
LED209
LED210
LED211
LED212
LED213
LED214
LED215
LED216
R201
R202
R203
R204
R205
R206
C304
S316
R316
R317
B C A
S316
MULTI JOG
S301
S302
S303
S304
S305
S306
S307
S308
S309
S310
S311
S312
S313
S314
S315
R302
R303
R304
R305
R306
R307
R308
R309
R310
R311
R312
R313
R217
R218
R219
C201
R220
R221
R222
R223
R234
R235
R236
R237
R238
R239
R240
R241
R242
R243
R244
R245
R246
R247
R248
R249
R250
R251
R252
R253
S309
ENTER
LED201 ~ LED208
MULTI JOG LED
S308
ECO
S307
SURROUND
S306
GEQ
S305
UP
S304
DOWN
S310
RHYTHM
S311
BEAT ON/OFF
S312
AUTO SPICE /FILL IN
S314
SPICE B
FL201
FL DISPLAY
S315
SPICE A
S313
DOLBY PRO LOGIC
S303
CLOCK
S302
TIMER
S301
DEMO

SCHEMATIC DIAGRAM (MAIN : GE-NH1100 / NAVH1200)


A MAIN C.B
FL201 BJ699GNK
FL DISPLAY
1200 ONLY
LED201~216
SEL6510C-TP5 GRN
NORMAL
PHANTOM
3-STEREO
PRO LOGIC
MULTI JOG LSB
TO AMPLIFIER CN904
W101
WH101
W301
I-GE2
I-TEMPO
D-GND
-VFL
FIL2
FIL1
SERIAL
I-GE1
VM
L+R
FB101 BL01RN1
L101 10µH
L102 10µH
L103 10µH
L104 10µH
L301 1µH
C302 0.1
R115 10
C206 10/50
C204 10/50
C202 0.047
C203 4.7/50
C205 10/50
-30.3
11.5
AC 3.9V
S301~315: EVQ11G04M
DOLBY PRO LOGIC
BEAT ON/OFF
RHYTHM
ENTER
ECO
SURROUND
GEQ
UP
DOWN
S313
S311
S310
S309
S308
S307
S306
S305
S304
R313 22k
R312 10k
R311 5.6k
R310 3.9k
R309 2.7k
R308 1.8k
R307 1.5k
R306 1.8k
1200 ONLY
5.2
4.6
SPICE B
AUTO SPICE /FILL IN
SPICE A
CLOCK
TIMER
DEMO
S314
S312
S315
S303
S302
S301
R305 2.7k
R304 1.8k
R303 1.5k
R302 1.8k
R114 3.3k
R316 1k
R317 15k
S316
RE0121
PVB25
FINAL
MULTI JOG
C303 0.01
C304 2200p
R318 6.8k
R319 1.5k
R401 100
5.3
R301 10k
C301 0.1
R102 100k
R256 4.7k
R107 39
R106 39
R105 39
R111 22k
D101 MTZJ5.1B
C101 100/6.3
R108 100
C111 22/16
C103 4.7/35
D102 MTZJ6.2A
R109 47k
D103 1SS133
R118 1k
Q101 RN1410
R101 1k
CLOCK SHIFT SW
C105 15p
X101 VIB.CER 5.76MHz
OSC
C106 68p
C107 33p
R110 100
C108 0.1
R112 12k
IC401
BA3835F
SPEANA DRIVE IC
C401 0.1
C402 0.1
R403 100k
BIASC 2.3
VREFC 1.4
RREF 2.3
NC
DIFOUT
CIN 2.3
AIN 2.3
VCC 4.5
GND 0
AOUT
TEST
SEL
R404 100
R405 27k
R406 27k
R407 27k
R408 27k
S-C
S-B
S-A
C403 0.056
C405 0.47
C404 0.056
C407 390p
R402 22k
C406 0.1
R113 1k
L+R
IC101
LC866448W-5L20
MICRO COMPUTER
O-C.SHIFT
PRO LOGIC 9.0
3-STEREO 9.0
PHANTOM 9.0
NORMAL 9.0
RESET 5.0
VSS1 0
CF1 2.3
CF2 2.5
VDD1 5.2
I-HOLD 4.0
I-KEY1 5.2
I-SPEANA
I-JOG
PRO LOGIC
1100 ONLY
1200 ONLY
I/O-SERIAL
SPEANA A
SPEANA B
SPEANA C
VSS2
O-H FREQ ON
O-L FREQ ON
LED ON
R255 8.2k
R254 4.7k
5.8
VP
VDD2
C109 0.1
C110 0.1
C201 470p
R217~R223 100k
R253 100k
R237 47k
R239 47k
D-GND
ANALOG SIGNAL FLOW

MECHANICAL EXPLODED VIEW 1 / 1 (GE-NH1100 / NAVH1200)


11
Ⓐ
Ⓐ
PLATE,DUMMY
Ⓐ
Ⓑ
Ⓑ
6 <1200>
7 <1200>
10
14
P.C.B
Ⓐ
15
Ⓐ
6 <1100>
7 <1100>
8
5
Ⓐ
12
Ⓑ
PLATE,
EARTH
Ⓑ
13
1
9
Ⓐ
4
SH,JOG
3
2

MECHANICAL PARTS LIST 1 / 1 (GE-NH1100 / NAVH1200)

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-SU1-004-010		WINDOW,DISPLAY
2	8Z-SU1-007-010		KNOB,RTRY JOG
3	8Z-SU1-005-010		REFLECTOR,JOG
4	8Z-SU1-006-010		RING,JOG
5	87-B00-002-010		BADGE,AIWA 30 ABS SIL
6	8Z-SU1-001-010		CABI,FR<1100>
6	8Z-SUM-001-010		CABI,FR PRO<1200>
7	8Z-SU1-009-010		KEY,DEMO<1100>
7	8Z-SUM-004-010		KEY,PRO<1200>
8	8Z-SU1-008-010		KEY,GEQ
9	8Z-SU1-010-010		KEY,ENTER
10	8Z-SX1-011-010		PANEL,SIDE L
11	8Z-SU1-002-010		CABI,STEEL
12	8Z-SU1-003-010		CABI,REAR YJSNM<1100YJ>
12	8Z-SU1-021-010		CABI,REAR YSNM<1100Y>
12	8Z-SUM-003-010		CABI,REAR YJSNM<1200YSM>
12	8Z-SUM-011-110		CABI,REAR YSNM<1200YSM>
13	8Z-SX1-012-010		PANEL,SIDE R
14	8Z-SU1-608-010		CORD,52305-101BLK
15	88-SU1-201-110		GUIDE,FL
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-067-633-010		TAPPING SCREW, BVT2+3-8

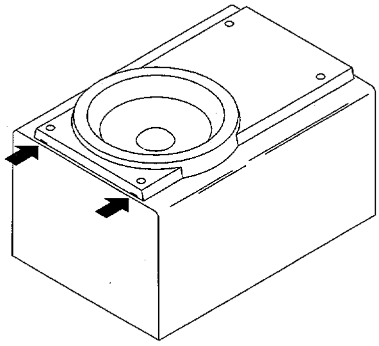
COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

SPEAKER DISASSEMBLY INSTRUCTIONS

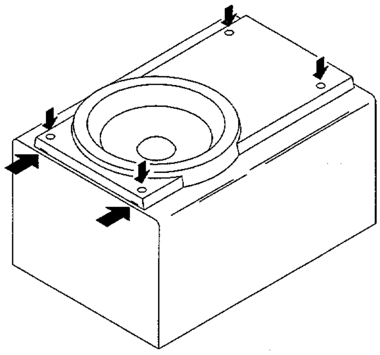
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



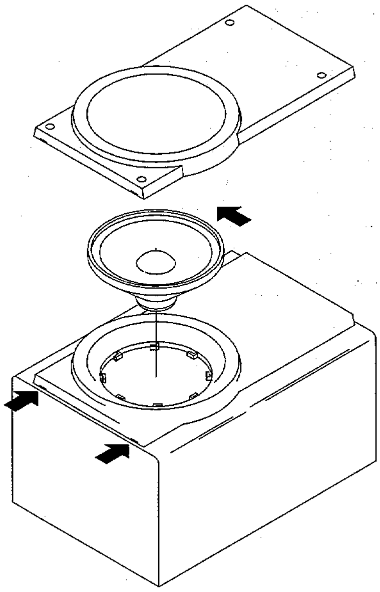
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

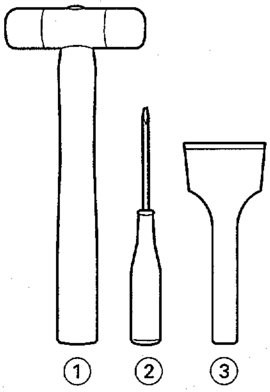


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

① Plastic head hammer
② (⊖) flat head screwdriver
③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.
2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.
3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

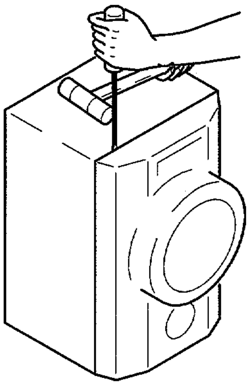


Fig-1

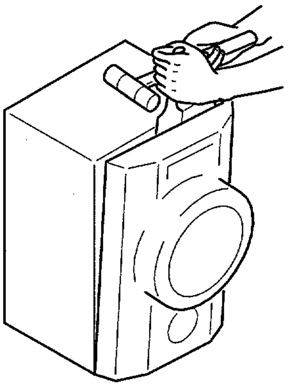


Fig-2

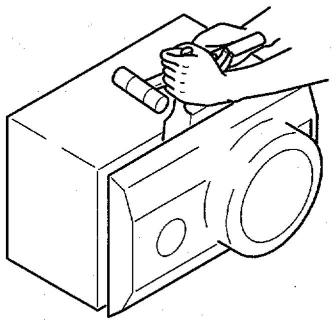


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST
SX-NAVH1200 (YBL, YTL, YJBL)

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NS5-610-010		CORD, SPKR
2	8Z-SSM-006-010		PANEL,FR L
3	8Z-SSM-001-010		PANEL,FR R
4	8Z-SSM-003-010		PANEL,TW
5	8Z-SSM-007-010		GRILLE,FRAME ASSY
6	8Z-SSM-004-010		SPACER
7	8Z-SSM-009-010		PROTECTER,TW
8	8Z-SSM-602-010		SPKR, W 150
9	8Z-NSY-608-010		SPKR, CERAMIC ASSY
10	83-MS2-603-210		SPKR,T 60
11	8Z-SSM-013-010		CABI,T<YTL>

SX-CR677 (YSTC, YJSTC)

NOTE: This SX-CR677 speaker contains SX-C607 (center speaker) and SX-R277 (rear speaker).

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-YS1-001-010		CABI,REAR<277>
2	8Z-YS1-002-010		GRILLE FRAME ASSY<277>
3	81-VSA-009-010		CORD BUSH<277>
4	87-010-384-010		CAP,E 100-25 SME<277>
5	87-YS6-002-010		SPKR, CORD Y<277>
6	8Z-YS1-601-010		SPKR, 100<277>
7	87-YS7-012-010		PANEL,FR S<607>
8	87-YS7-013-010		PANEL,REAR S<607>
9	87-YS3-003-010		GRILLE,FRAME ASSY<607>
10	83-NSM-010-010		SPKR, CORD<607>
11	81-VSA-009-010		CORD BUSH<607>
12	87-YS7-602-010		SPKR,100<607>
13	8Z-YS2-911-010		IB,YJ(ECA)Y

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-SP1-906-010		IB,EZ(9L)M<1100EZ>
1	8Z-SPM-906-010		IB,EZ(9L)M<1200EZ>
1	8Z-SP1-905-010		IB,K(E)M<1100K>
1	8Z-SPM-905-010		IB,K(E)M<1200K>
1	8Z-SP1-901-010		IB,H(ECA)M<1100HR>
1	8Z-SPM-901-010		IB,H(ECA)M<1200HR>
2	8Z-NF5-702-010		RC UNIT,ZAS04<1100>
2	8Z-NFV-702-010		RC UNIT,ZAS05<1200>
3	87-006-225-010		AM LOOP ANT NC2<EZ,K>
3	87-043-095-010		WIRE ANTENNA<1100HR>
3	87-006-269-010		AM LOOP ANT UN<1200HR>
4	87-043-106-010		WIRE, FM ANT (Z)<EZ,K>
4	87-043-115-010		ANT,FEEDER FM<HR>
⚠ 6	87-A91-017-010		PLUG, CONVERSION JT-0476<HR>

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G－　　－	
G－　　－	
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